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Human Nucleic Acid Sequences from Normal Bladder Tissue

The invention relates to human nucleic acid sequences from normal bladder tissue, which code for gene products or portions thereof, their functional genes that code at least one bioactive polypeptide and their use.

In addition, the invention relates to the polypeptides that can be obtained by way of the sequences and their use.

One of the main causes of death by cancer is the bladder tumor, for control of which new therapies are necessary. Previously used therapies, such as, e.g., chemotherapy, hormone therapy or surgical removal of tumor tissue, frequently do not result in a complete cure.

The cancer phenomenon often goes along with overexpression or underexpression of certain genes in degenerated cells, it still being unclear whether these altered expression rates are the cause or the result of the malignant transformation. Identification of these genes would be an important step for development of new therapies against cancer. Spontaneous formation of cancer is often preceded by a host of mutations. They can have the most varied effects on the expression pattern in the affected tissue, such as, e.g., underexpression or overexpression, but also expression of shortened genes. Several such changes due to these mutation cascades can ultimately lead to malignant degeneration. The complexity of these relationships makes an experimental approach very difficult.

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A database that consists of so-called ESTs is used to look for candidate genes, i.e., genes that compared to the tumor tissue are more strongly expressed in normal tissue. ESTs (expressed sequence tags) are sequences of cDNAs, i.e., mRNAs transcribed in reverse, therefore molecules that reflect gene expression. The EST sequences are determined for normal and degenerated tissue. These databases are offered to some extent commercially by various companies. The ESTs of the LifeSeq database, which is used here, are generally between 150 and 350 nucleotides long. They represent a pattern that is unmistakable for a certain gene, although this gene is normally very much longer (> 2000 nucleotides). By comparison of the expression patterns of normal and tumor tissue, ESTs can be identified that are important for tumor formation and proliferation. There is, however, the following problem: Since the EST sequences that are found can belong to different regions of an unknown gene due to different constructions of cDNA libraries, in this case a completely incorrect ratio of the occurrence of these ESTs in the respective tissue would arise. This would only be noticed when the complete gene is known and thus ESTs can be assigned to the same gene.

It has now been found that this possibility of error can be reduced if all ESTs from the respective tissue type are assembled beforehand, before the expression patterns are compared to one another. Overlapping ESTs of the same gene were thus combined into longer sequences (see Figure 1, Figure 2a and Figure 3). This lengthening and thus coverage of an essentially larger gene

Nucleic acid sequences Seq. ID Nos. 1-127 and 391-403, which play a role as candidate genes in the bladder tumor, have now been found.

The invention thus relates to nucleic acid sequences that code a gene product or a portion thereof, comprising

- or

- c) a nucleic acid sequence that is complementary to the nucleic acid sequences named under a) or b).

In addition, the invention relates to a nucleic acid sequence according to one of the sequences Seq. ID Nos. 21, 24-27, 29-40, 43, 44, 46-48, 50-63, 65, 67, 69, 72, 73, 75, 77-80, 82, 83, 85-86, 88, 90, 92-127, and 391-403 or a complementary or

The invention also relates to nucleic acid sequences Seq. ID Nos. 1-127 and 391-403, which are expressed elevated in the normal bladder tissue.

The invention further relates to nucleic acid sequences comprising a portion of the above-mentioned nucleic acid sequences in such a sufficient amount that they hybridize with sequences Seq. ID Nos. 1-127 and 391-403.

The nucleic acid sequences according to the invention generally have a length of at least 50 to 4500 bp, preferably a length of at least 150 to 4000 bp, especially a length of 450 to 3500 bp.

With the partial sequences Seq. ID Nos. 1-127 and 391-403 according to the invention, expression cassettes can also be built using current process practice, whereby on the cassette at least one of the nucleic acid sequences according to the invention is combined with at least one control or regulatory sequence generally known to one skilled in the art, such as, e.g., a suitable promoter. The sequences according to the invention can be inserted in a sense or antisense orientation.

A large number of expression cassettes or vectors and promoters which can be used are known in the literature.

Expression cassettes or vectors are defined as:

1. bacterial, such as, e.g., phagescript, pBs, ϕ X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene), pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia), 2. eukaryotic,

Control or regulatory sequences are defined as suitable promoters. Here, two preferred vectors are the pKK232-8 and the PCM7 vector. In particular, the following promoters are intended: lacI, lacZ, T3, T7, gpt, lambda P_R, trc, CMV, HSV thymidine-kinase, SV40, LTRs from retrovirus and mouse metallothionein-I.

The expression cassettes are likewise the subject matter of this invention.

The nucleic acid fragments according to the invention can be used to produce full-length genes. The genes that can be obtained are likewise the subject matter of this invention.

The invention also relates to the use of the nucleic acid sequences according to the invention and the gene fragments that can be obtained from use.

The nucleic acid sequences according to the invention can be moved with suitable vectors into host cells, in which as the heterologous part, the genetic information which is contained on the nucleic acid fragments and which is expressed is located.

The host cells containing the nucleic acid fragments are likewise the subject matter of this invention.

Suitable host cells are, e.g., prokaryotic cell systems such as E. coli or eukaryotic cell systems such as animal or human cells or yeasts.

The nucleic acid sequences according to the invention can be used in the sense or antisense form.

Production of polypeptides or their fragments is done by cultivation of the host cells according to current cultivation methods and subsequent isolation and purification of the peptides or fragments, likewise using current methods. The invention further relates to nucleic acid sequences, which code at least a partial sequence of a bioactive polypeptide.

This invention further relates to polypeptide partial sequences, so-called ORF (open-reading-frame)-peptides, according to the sequence protocols Seq. ID Nos. 128-390 and 404-431.

The invention further relates to the polypeptide sequences that have at least 80% homology, especially 90% homology to the polypeptide partial sequences of Seq ID Nos. 128-390 and 404-431 according to the invention.

The invention also relates to antibodies that are directed against a polypeptide or a fragment thereof and that are coded by the nucleic acids of sequences Seq. ID Nos. 1-127 and 391-403 according to the invention.

Antibodies are defined especially as monoclonal antibodies.

The antibodies according to the invention can be identified by, i.a., a phage display process. These antibodies are also the subject matter of the invention.

The polypeptide partial sequences according to the invention can be used in a phage display process. The polypeptides that are identified with this process and that bind to the polypeptide partial sequences according to the invention are also the subject matter of the invention.

The nucleic acid sequences according to the invention can also be used in a phage display process.

The polypeptides of sequences Seq. ID Nos. 128-390 and 404-431 according to the invention can also be used as tools for finding active ingredients against the bladder tumor, which is likewise the subject matter of this invention.

Likewise the subject matter of this invention is the use of nucleic acid sequences according to sequences Seq. ID Nos. 1-127 and 391-403 for expression of polypeptides, which can be used as tools for finding active ingredients against the bladder tumor.

The invention also relates to the use of the found polypeptide partial sequences Seq. ID Nos. 128-390 and 404-431 as pharmaceutical agents in the gene therapy for treatment of bladder tumors or for the production of a pharmaceutical agent for treatment of bladder tumors.

The invention also relates to pharmaceutical agents that contain at least one polypeptide partial sequence Seq. ID Nos. 128-390 and 404-431.

The nucleic acid sequences found according to the invention can also be genomic or mRNA sequences.

The invention also relates to genomic genes, their exon and intron structures and their splice variants that can be obtained

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With the nucleic acids according to the invention (cDNA sequences) Seq. ID Nos. 1-127 and 391-403, genomic BAC-, PAC- and cosmid libraries are screened, and specifically human clones are isolated via complementary base pairing (hybridization). The BAC, PAC and cosmid clones isolated in this way are hybridized using fluorescence-in-situ hybridization on metaphase chromosomes, and the corresponding chromosome sections on which the corresponding genomic genes lie are identified. BAC, PAC and cosmid clones are sequenced in order to clarify the corresponding genomic genes in their complete structure (promoters, enhancers, silencers, exons and introns). BAC, PAC and cosmid clones can be used as independent molecules for gene transfer (see Figure 5).

The invention also relates to BAC, PAC and cosmid clones containing functional genes and their chromosomal localization according to sequences Seq. ID Nos. 1-127 and 391-403 for use as vehicles for gene transfer.

Meanings of Technical Terms and Abbreviations

Nucleic acids= Nucleic acids in this invention are defined as:

mRNA, partial cDNA, full-length cDNA and genomic genes (chromosomes)

ORF = Open Reading Frame, a defined sequence of amino acids which can be derived from the cDNA sequence

Contig = A set of DNA sequences that can be combined as a result of very great similarities into one sequence (consensus)

Singleton = A contig that contains only one sequence

Module = Domain of a protein with a defined sequence, which represents one structural unit and which occurs in various proteins

N = selectively the nucleotide A, T, G or C

X = selectively one of the 20 naturally occurring amino acids

Explanation of the Alignment Parameters

minimal initial match = minimal initial identity area

maximum pads per read = maximum number of insertions

maximum percent mismatch = maximum deviation in %

Explanation of Figures

Figure 1 shows the systematic gene search in the Incyte LifeSeq database

Figure 2a shows the principle of EST assembling

Figures 2b1-2b4 show the entire principle of EST assembling

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- Figure 3 shows the in-silico subtraction of gene expression in various tissues
- Figure 4a shows the determination of tissue-specific expression via electronic Northern
- Figure 4b shows the electronic Northern
- Figure 5 shows the isolation of genomic BAC and PAC clones.

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The following examples explain the production of the nucleic acid sequences according to the invention without limiting the invention to these examples and nucleic acid sequences.

Example 1

Search for Tumor-related Candidate Genes

First, all ESTs of the corresponding tissue from the LifeSeq database (from October 1997) were extracted. They were then assembled by means of the GAP4 program of the Staden package with the parameters 0% mismatch, 8 pads per read and a minimal match of 20. The sequences (fails) not recorded in the GAP4 database were assembled first at 1% mismatch and then again at 2% mismatch with the database. Consensus sequences were computed from the contigs of the database that consisted of more than one sequence. The singletons of the database, which consisted of only one sequence, were re-assembled at 2% mismatch with the sequences not recorded in the GAP4 database. In turn, the consensus sequences were determined for the contigs. All other ESTs were re-assembled at 4% mismatch. The consensus sequences were extracted once again and finally assembled with the previous consensus sequences and the singletons and the sequences not recorded in the database at 4% mismatch. The consensus sequences were formed and used with the singletons and fails as the initial basis for tissue comparisons. This procedure ensured that among the parameters used, all sequences represented gene regions independent of one another.

Figures 2b1-2b4 illustrate the lengthening of the bladder tissue ESTs.

The sequences of the respective tissue assembled in this way were then compared to one another by means of the same program (Figure 3). To do this, first all sequences of the first tissue were input into the database. (It was therefore important that they were independent of one another.)

Then, all sequences of the second tissue were compared to all those of the first. The result was sequences that were specific to the first or the second tissue as well as those which occurred in both. In the latter, the ratio of the frequency of occurrence in the respective tissue was evaluated. All programs pertaining to the evaluation of the assembled sequences were themselves developed.

All sequences that occurred more than four times in respectively one of the compared tissues and all that occurred at least five times as often in one of the two tissues were further studied. These sequences were subjected to an electronic Northern (see Example 2.1), by which the distribution in all tumor and normal tissues was studied (see Figure 4a and Figure 4b). The relevant candidates were then lengthened using all Incyte ESTs and all ESTs of public databases (see Example 3). Then, the sequences and their translation into possible proteins were compared to all nucleotide and protein databases and were studied for possible regions that code for proteins.

Example 2

Algorithm for Identification and Lengthening of Partial cDNA Sequences with Altered Expression Pattern

An algorithm for finding overexpressed or underexpressed genes will be explained below. The individual steps are also summarized in a flow chart for the sake of clarity (see Figure 4b).

2.1 Electronic Northern Blot

By means of a standard program for homology search, e.g., BLAST (Altschul, S. F.; Gish, W.; Miller, W.; Myers, E. W. and Lipman, D. J. (1990) J. Mol. Biol. 215, 403-410), BLAST2 (Altschul, S. F.; Madden, T. L.; Schäffer, A. A.; Zhang, J.; Zhang, Z.; Miller, W., and Lipman, D. J. (1997) Nucleic Acids Research 25 3389-3402) or FASTA (Pearson, W. R. and Lipman, D. J. (1988) Proc. Natl. Acad. Sci. USA 85 2444-2448), the homologous sequences in various EST libraries (private or public) arranged by tissues are determined for a partial DNA sequence S, e.g., an individual EST or a contig of ESTs. The (relative or absolute) tissue-specific occurrence frequencies of this partial sequence S which were determined in this way are called electronic Northern Blots.

2.1.1

Analogously to the procedure described under 2.1, the sequence Seq. ID No. 1 was found, which occurs 12.2 x more strongly in the normal bladder tissue than in tumor tissue.

09573640-036671

Electronic Northern for SEQ. ID NO.: 1

FETUS
% frequency

STANDARDIZED/SUBTRACTED LIBRARIES	% frequency
Breast	0.0000
Ovary_n	0.0000
Ovary_t	0.0051
Endocrine tissue	0.0000
Fetal	0.0035
Gastrointestinal	0.0122
Hematopoietic	0.0171
Skin-muscle	0.0065
Testicles	0.0077
Lung	0.0082
Nerves	0.0090
Prostate	0.0068
Sensory Organs	0.0000
Uterus_n	0.0042

In an analogous procedure, the following Northernblots were also found:

Electronic Northern for SEQ. ID NO.: 2

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0741	0.0102	7.2459	0.1380
Breast	0.0102	0.0038	2.7221	0.3674
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0017	0.0000	undef	0.0000
Gastrointestinal	0.0038	0.0046	0.8283	1.2072
Brain	0.0007	0.0021	0.3600	2.7779
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0184	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0032	0.0000	undef	0.0000
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0052	0.0061	0.8467	1.1810
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0034	0.0060	0.5711	1.7510
Kidney	0.0027	0.0068	0.3965	2.5219
Pancreas	0.0017	0.0055	0.2991	3.3428
Penis	0.0120	0.0267	0.4493	2.2259
Prostate	0.0109	0.0064	1.7060	0.5862
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0051	0.0000	undef	0.0000
Breast hyperplasia	0.0064			
Prostate hyperplasia	0.0030			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0052			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0278	Breast	0.0068
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0032
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0061	Nerves	0.0010
Prostate	0.0000	Prostate	0.0068
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0042

Electronic Northern for SEQ. ID NO.: 3

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0585	0.0153	3.8136	0.2622
Breast	0.0064	0.0000	undef	0.0000
Small intestine	0.0184	0.0000	undef	0.0000
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0204	0.0100	2.0377	0.4907
Gastrointestinal	0.0077	0.0046	1.6567	0.6036
Brain	0.0059	0.0092	0.6400	1.5626
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0085	0.0000	undef	0.0000
Testicles	0.0173	0.0000	undef	0.0000
Lung	0.0104	0.0020	5.0803	0.1968
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0217	0.0068	3.1722	0.3152
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0060	0.0000	undef	0.0000
Prostate	0.0654	0.0362	1.8064	0.5536
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0076	0.0204	0.3741	2.6732
Uterus-general	0.0000	0.1908	0.0000	undef
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0803			
Seminal vesicle	0.0178			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0106			

FETUS	STANDARDIZED/SUBTRACTED
% frequency	LIBRARIES
	% frequency
Development	Breast 0.0000
Gastrointestinal 0.0139	Ovary_n 0.0000
Brain 0.0083	Ovary_t 0.0000
Hematopoietic 0.0000	Endocrine tissue 0.0000
Skin 0.0000	Fetal 0.0128
Hepatic 0.0000	Gastrointestinal 0.0000
Heart-blood vessels 0.0036	Hematopoietic 0.0000
Lung 0.0000	Skin-muscle 0.0162
Suprarenal gland 0.0000	Testicles 0.0000
Kidney 0.0124	Lung 0.0164
Placenta 0.0000	Nerves 0.0050
Prostate 0.0000	Prostate 0.0205
Sensory organs 0.0000	Sensory Organs 0.0000
	Uterus_n 0.0333

TUMOR " 04524950

Electronic Northern for SEQ. ID NO.: 4

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0351	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0010	0.0000	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Suprarenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

Breast	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0000
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles	0.0000
Lung	0.0000
Nerves	0.0000
Prostate	0.0000
Sensory Organs	0.0000
Uterus_n	0.0000

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	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0390	0.0026	15.2544	0.0656
Breast	0.0460	0.0056	8.1663	0.1225
Small intestine	0.0123	0.0331	0.3707	2.6973
Ovary	0.0000	0.0052	0.0000	undef
Endocrine tissue	0.0119	0.0050	2.3774	0.4206
Gastrointestinal	0.0038	0.0000	undef	0.0000
Brain	0.0052	0.0072	0.7200	1.3890
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0294	0.0000	undef	0.0000
Hepatic	0.0143	0.0065	2.2059	0.4533
Heart	0.0074	0.0000	undef	0.0000
Testicles	0.0058	0.0117	0.4920	2.0326
Lung	0.0021	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0103	0.0240	0.4283	2.3347
Kidney	0.0516	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0090	0.0000	undef	0.0000
Prostate	0.0044	0.0064	0.6824	1.4654
Uterus-endometrium	0.0270	0.0000	undef	0.0000
Uterus-myometrium	0.0381	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.1087			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0089			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0319			

	FETUS % frequency	STANDARDIZED/SUBTRACTED LIBRARIES % frequency	
Development		Breast	0.0272
Gastrointestinal	0.0557	Ovary_n	0.0000
Brain	0.0028	Ovary_t	0.0101
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0116
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0498	Skin-muscle	0.0194
Suprarenal gland	0.0036	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0151
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
	0.0251	Uterus n	0.0208

Electronic Northern	FOR SEG: ID NO: 7		Ratios	
	NORMAL	TUMOR	N/T	T/N
	% frequency	% frequency		

Bladder	0.0351	0.0026	13.7290	0.0728
Breast	0.0051	0.0038	1.3611	0.7347
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0060	0.0000	undef	0.0000
Endocrine tissue	0.0034	0.0000	undef	0.0000
Gastrointestinal	0.0057	0.0046	1.2425	0.8048
Brain	0.0044	0.0000	undef	0.0000
Hematopoietic	0.0053	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0021	0.0137	0.1542	6.4853
Testicles	0.0000	0.0117	0.0000	undef
Lung	0.0021	0.0020	1.0161	0.9842
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0055	0.0000	undef
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0044	0.0021	2.0473	0.4885
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0051	0.0000	undef	0.0000
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0035			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0063	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0047
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0065
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0062	Lung	0.0040
Placenta	0.0061	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0042
		Uterus_n	

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0000	undef	0.0000
Breast	0.0013	0.0019	0.6805	1.4694
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0034	0.0000	undef	0.0000
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0022	0.0051	0.4320	2.3149
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0042	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0041	0.0000	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0051	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0017	0.0055	0.2991	3.3428
Penis	0.0000	0.0000	undef	undef
Prostate	0.0065	0.0043	1.5354	0.6513
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0032	0.0000	undef	undef
Breast hyperplasia	0.0059			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0026			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0139	Breast	0.0068
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0032
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0082
Placenta	0.0000	Nerves	0.0040
Prostate	0.0000	Nervous	0.0000
Sensory organs	0.0000	Prostate	0.0000
		Sensory Organs	0.0083
		Uterus_n	

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0026	10.6781	0.0936
Breast	0.0026	0.0019	1.3611	0.7347
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0060	0.0052	1.1513	0.8686
Endocrine tissue	0.0051	0.0000	undef	0.0000
Gastrointestinal	0.0038	0.0046	0.8283	1.2072
Brain	0.0037	0.0051	0.7200	1.3890
Hematopoietic	0.0000	0.0379	0.0000	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0117	0.0000	undef
Lung	0.0042	0.0020	2.0321	0.4921
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0051	0.0060	0.8567	1.1673
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0017	0.0000	undef	0.0000
Penis	0.0000	0.0267	0.0000	undef
Prostate	0.0000	0.0085	0.0000	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0030			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0052			
White blood cells	0.0000			
Cervix				

	FETUS % frequency	STANDARDIZED/SUBTRACTED LIBRARIES % frequency	
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0101
Hematopoietic	0.0000	Endocrine tissue	0.0490
Skin	0.0000	Fetal	0.0017
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0114
Lung	0.0000	Skin-muscle	0.0194
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0040
Placenta	0.0061	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

Electronic Northern for SEQ. ID NO.: 12

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0858	0.0358	2.3971	0.4172
Breast	0.0435	0.0338	1.2854	0.7779
Small intestine	0.0276	0.0165	1.6683	0.5994
Ovary	0.0120	0.0182	0.6579	1.5201
Endocrine tissue	0.0290	0.0176	1.6496	0.6062
Gastrointestinal	0.0594	0.0231	2.5679	0.3894
Brain	0.0333	0.0657	0.5062	1.9754
Hematopoietic	0.0134	0.0000	undef	0.0000
Skin	0.0514	0.0000	undef	0.0000
Hepatic	0.0381	0.0129	2.9412	0.3400
Heart	0.0413	0.0275	1.5034	0.6652
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0384	0.0164	2.3497	0.4256
Stomach-esophagus	0.0290	0.0307	0.9454	1.0578
Muscle-skeleton	0.0188	0.0360	0.5235	1.9102
Kidney	0.0217	0.0548	0.3965	2.5219
Pancreas	0.0132	0.0166	0.7977	1.2536
Penis	0.0779	0.0000	undef	0.0000
Prostate	0.0632	0.0447	1.4136	0.7074
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0229	0.0068	3.3668	0.2970
Uterus-general	0.0306	0.0000	undef	0.0000
Breast hyperplasia	0.0416			
Prostate hyperplasia	0.0595			
Seminal vesicle	0.0712			
Sensory organs	0.0118			
White blood cells	0.0087			
Cervix	0.0426			

	FETUS % frequency	STANDARDIZED/SUBTRACTED LIBRARIES % frequency	
Development	0.0000	Breast	0.1293
Gastrointestinal	0.0250	Ovary_n	0.1595
Brain	0.0063	Ovary_t	0.0101
Hematopoietic	0.0118	Endocrine tissue	0.0490
Skin	0.0000	Fetal	0.0338
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0036	Hematopoietic	0.0000
Lung	0.0108	Skin-muscle	0.0162
Suprarenal gland	0.1014	Testicles	0.0000
Kidney	0.0185	Lung	0.0301
Placenta	0.0242	Nerves	0.0410
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0628	Sensory Organs	0.0624
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 13

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0468	0.0077	6.1018	0.1639
Breast	0.0294	0.0075	3.9130	0.2556
Small intestine	0.0184	0.0165	1.1122	0.8991
Ovary	0.0090	0.0000	undef	0.0000
Endocrine tissue	0.0085	0.0050	1.6981	0.5889
Gastrointestinal	0.0192	0.0000	undef	0.0000
Brain	0.0059	0.0062	0.9599	1.0417
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0808	0.0000	undef	0.0000
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0540	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0156	0.0082	1.9051	0.5249
Stomach-esophagus	0.0193	0.0077	2.5211	0.3967
Muscle-skeleton	0.1216	0.0000	undef	0.0000
Kidney	0.0000	0.0274	0.0000	undef
Pancreas	0.0000	0.0055	0.0000	undef
Penis	0.1387	0.0000	undef	0.0000
Prostate	0.0087	0.0106	0.8189	1.2211
Uterus-endometrium	0.0338	0.0000	undef	0.0000
Uterus-myometrium	0.0457	0.0272	1.6834	0.5940
Uterus-general	0.0357	0.0000	undef	0.0000
Breast hyperplasia	0.0160			
Prostate hyperplasia	0.0208			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0009			
Cervix	0.0426			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0167	Ovary_n	0.0000
Brain	0.0063	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0029
Hepatic	0.0000	Gastrointestinal	0.0244
Heart-blood vessels	0.0249	Hematopoietic	0.0000
Lung	0.0108	Skin-muscle	0.0032
Suprarenal gland	0.0254	Testicles	0.0309
Kidney	0.0062	Lung	0.0082
Placenta	0.0000	Nerves	0.0090
Prostate	0.0249	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0077
		Uterus_n	0.0208

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	NORMAL % frequency	TUMOR % frequency	Ratios N/T		T/N
Bladder	0.0351	0.0026	13.7290		0.0728
Breast	0.0102	0.0075	1.3611	0.7347	
Small intestine	0.0092	0.0000	undef	0.0000	
Ovary	0.0090	0.0026	3.4538	0.2895	
Endocrine tissue	0.0051	0.0025	2.0377	0.4907	
Gastrointestinal	0.0115	0.0000	undef	0.0000	
Brain	0.0000	0.0000	undef	undef	
Hematopoietic	0.0000	0.0000	undef	undef	
Skin	0.0073	0.0000	undef	0.0000	
Hepatic	0.0048	0.0065	0.7353	1.3600	
Heart	0.0233	0.0137	1.6961	0.5896	
Testicles	0.0000	0.0000	undef	undef	
Lung	0.0135	0.0041	3.3022	0.3028	
Stomach-esophagus	0.0193	0.0000	undef	0.0000	
Muscle-skeleton	0.0634	0.0000	undef	0.0000	
Kidney	0.0027	0.0068	0.3965	2.5219	
Pancreas	0.0017	0.0000	undef	0.0000	
Penis	0.0359	0.0000	undef	0.0000	
Prostate	0.0219	0.0043	5.1181	0.1954	
Uterus-endometrium	0.0203	0.0000	undef	0.0000	
Uterus-myometrium	0.0229	0.0000	undef	0.0000	
Uterus-general	0.0255	0.0000	undef	0.0000	
Breast hyperplasia	0.0000				
Prostate hyperplasia	0.0089				
Seminal vesicle	0.0089				
Sensory organs	0.0000				
White blood cells	0.0000				
Cervix					

FETUS		STANDARDIZED/SUBTRACTED LIBRARIES	
	% frequency		% frequency
Development	0.0000	Breast	0.0136
Gastrointestinal	0.0139	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0029
Hepatic	0.0000	Gastrointestinal	0.0244
Heart-blood vessels	0.0071	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0507	Testicles	0.0000
Kidney	0.0062	Lung	0.0181
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0583
		Uterus n	

Electronic Northern for SEQ. ID NO.: 17

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0026	10.6781	0.0936
Breast	0.0307	0.0038	8.1663	0.1225
Small intestine	0.0061	0.0165	0.3707	2.6973
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0025	0.0000	undef
Gastrointestinal	0.0249	0.0000	undef	0.0000
Brain	0.0015	0.0010	1.4399	0.6945
Hematopoietic	0.0040	0.0000	undef	0.0000
Skin	0.0367	0.0000	undef	0.0000
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0148	0.0000	undef	0.0000
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0062	0.0020	3.0482	0.3281
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0274	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0050	0.0000	undef	0.0000
Penis	0.0120	0.0267	0.4493	2.2259
Prostate	0.0087	0.0000	undef	0.0000
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0229	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0288			
Prostate hyperplasia	0.0030			
Seminal vesicle	0.0000			
Sensory organs	0.0118			
White blood cells	0.0000			
Cervix	0.0106			

	FETUS	STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	
		% frequency	
Development	0.0000	Breast	0.0204
Gastrointestinal	0.0111	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0047
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0062	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0083
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 18

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0585	0.0230	2.5424	0.3933
Breast	0.0013	0.0000	undef	0.0000
Small intestine	0.0368	0.0165	2.2244	0.4496
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0051	0.0025	2.0377	0.4907
Gastrointestinal	0.0115	0.0046	2.4850	0.4024
Brain	0.0022	0.0031	0.7200	1.3890
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0110	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0095	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0020	0.0000	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0051	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0017	0.0000	undef	0.0000
Penis	0.0509	0.0000	undef	0.0000
Prostate	0.0218	0.0149	1.4623	0.6838
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0229	0.0543	0.4208	2.3761
Uterus-general	0.0407	0.0000	undef	0.0000
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0356			
Sensory organs	0.0000			
White blood cells	0.0106			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0068
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0052
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0000
Lung	0.0108	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0030
Placenta	0.0000	Nerves	0.0137
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0083
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 20

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0429	0.0153	2.7966	0.3576
Breast	0.0141	0.0282	0.4991	2.0038
Small intestine	0.0307	0.0165	1.8537	0.5395
Ovary	0.0300	0.0390	0.7675	1.3029
Endocrine tissue	0.0409	0.0176	2.3288	0.4294
Gastrointestinal	0.0230	0.0139	1.6567	0.6036
Brain	0.0200	0.0298	0.6703	1.4919
Hematopoietic	0.0160	0.0000	undef	0.0000
Skin	0.0257	0.0000	undef	0.0000
Hepatic	0.0143	0.0259	0.5515	1.8133
Heart	0.0339	0.0000	undef	0.0000
Testicles	0.0288	0.0234	1.2299	0.8130
Lung	0.0270	0.0409	0.6604	1.5141
Stomach-esophagus	0.0483	0.0230	2.1009	0.4760
Muscle-skeleton	0.0394	0.0240	1.6419	0.6090
Kidney	0.0244	0.0205	1.1896	0.8406
Pancreas	0.0198	0.0276	0.7180	1.3928
Penis	0.0359	0.0533	0.6739	1.4839
Prostate	0.0305	0.0255	1.1942	0.8374
Uterus-endometrium	0.0270	0.0000	undef	0.0000
Uterus-myometrium	0.0534	0.0272	1.9640	0.5092
Uterus-general	0.0051	0.0954	0.0534	18.7357
Breast hyperplasia	0.0384			
Prostate hyperplasia	0.0595			
Seminal vesicle	0.0267			
Sensory organs	0.0118			
White blood cells	0.0286			
Cervix	0.0426			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0222	Ovary_n	0.0000
Brain	0.0063	Ovary_t	0.0051
Hematopoietic	0.0079	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0006
Hepatic	0.0000	Gastrointestinal	0.0244
Heart-blood vessels	0.0285	Hematopoietic	0.0000
Lung	0.0470	Skin-muscle	0.0065
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0247	Lung	0.0082
Placenta	0.0121	Nerves	0.0080
Prostate	0.0249	Prostate	0.0205
Sensory organs	0.0377	Sensory Organs	0.0000
		Uterus_n	0.0250

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	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N

Bladder	0.0195	0.0000	undef	0.0000
Breast	0.0026	0.0019	1.3611	0.7347
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0000	0.0052	0.0000	undef
Endocrine tissue	0.0034	0.0150	0.2264	4.4166
Gastrointestinal	0.0000	0.0139	0.0000	undef
Brain	0.0177	0.0031	5.7597	0.1736
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0064	0.0000	undef	0.0000
Testicles	0.0000	0.0117	0.0000	undef
Lung	0.0031	0.0123	0.2540	3.9367
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0027	0.0068	0.3965	2.5219
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0120	0.0000	undef	0.0000
Prostate	0.0000	0.0021	0.0000	undef
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0076	0.0068	1.1223	0.8911
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0142	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0065
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0070
Placenta	0.0061	Nerves	0.0068
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0125
		Uterus n	

Electronic Northern for SEQ. ID NO.: 22

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0013	0.0019	0.6805	1.4694
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0017	0.0000	undef	0.0000
Gastrointestinal	0.0019	0.0000	undef	0.0000
Brain	0.0007	0.0021	0.3600	2.7779
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0020	0.0000	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0022	0.0000	undef	0.0000
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0152	0.0068	2.2445	0.4455
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0032	0.0000		
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development 0.0000
Gastrointestinal 0.0028
Brain 0.0000
Hematopoietic 0.0000
Skin 0.0000
Hepatic 0.0000
Heart-blood vessels 0.0000
Lung 0.0000
Suprarenal gland 0.0000
Kidney 0.0000
Placenta 0.0000
Prostate 0.0000
Sensory organs 0.0000

Breast 0.0136
Ovary_n 0.0000
Ovary_t 0.0000
Endocrine tissue 0.0000
Fetal 0.0023
Gastrointestinal 0.0000
Hematopoietic 0.0000
Skin-muscle 0.0000
Testicles 0.0000
Lung 0.0000
Nerves 0.0000
Prostate 0.0000
Sensory Organs 0.0000
Uterus_n 0.0000

TABLE "DISEASE"

Electronic Northern for SEQ. ID NO.: 23

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0390	0.0000	undef	0.0000
Breast	0.0000	0.0019	0.0000	undef
Small intestine	0.0153	0.0000	undef	0.0000
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0017	0.0000	undef	0.0000
Gastrointestinal	0.0115	0.0046	2.4850	0.4024
Brain	0.0022	0.0000	undef	0.0000
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0021	0.0000	undef	0.0000
Testicles	0.0115	0.0000	undef	0.0000
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0240	0.0000	undef	0.0000
Prostate	0.0065	0.0064	1.0236	0.9769
Uterus-endometrium	0.0338	0.0000	undef	0.0000
Uterus-myometrium	0.0229	0.0475	0.4810	2.0791
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0149			
Seminal vesicle	0.0267			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0106			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development 0.0000
Gastrointestinal 0.0000
Brain 0.0000
Hematopoietic 0.0000
Skin 0.0000
Hepatic 0.0000
Heart-blood vessels 0.0000
Lung 0.0000
Suprarenal gland 0.0000
Kidney 0.0000
Placenta 0.0000
Prostate 0.0249
Sensory organs 0.0000

Breast 0.0000
Ovary_n 0.0000
Ovary_t 0.0000
Endocrine tissue 0.0006
Fetal 0.0000
Gastrointestinal 0.0000
Hematopoietic 0.0000
Skin-muscle 0.0000
Testicles 0.0000
Lung 0.0000
Nerves 0.0068
Prostate 0.0000
Sensory Organs 0.0000
Uterus_n

Electronic Northern for SEQ. ID NO.: 24

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0351	0.0051	6.8645	0.1457
Breast	0.0026	0.0056	0.4537	2.2042
Small intestine	0.0092	0.0000	undef	0.0000
Ovary	0.0090	0.0130	0.6908	1.4477
Endocrine tissue	0.0068	0.0075	0.9057	1.1042
Gastrointestinal	0.0172	0.0139	1.2425	0.8048
Brain	0.0044	0.0082	0.5400	1.8520
Hematopoietic	0.0040	0.0000	undef	0.0000
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0074	0.0000	undef	0.0000
Testicles	0.0173	0.0117	1.4759	0.6775
Lung	0.0042	0.0143	0.2903	3.4446
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0086	0.0060	1.4278	0.7004
Kidney	0.0000	0.0205	0.0000	undef
Pancreas	0.0033	0.0110	0.2991	3.3428
Penis	0.0180	0.0000	undef	0.0000
Prostate	0.0087	0.0128	0.6824	1.4654
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0102	0.0000	undef	0.0000
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0119			
Seminal vesicle	0.0000			
Sensory organs	0.0118			
White blood cells	0.0035			
Cervix	0.0000			

FETUS
% frequency

Development	0.0000
Gastrointestinal	0.0139
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0071
Lung	0.0036
Suprarenal gland	0.0254
Kidney	0.0062
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Breast	0.0000
Ovary_n	0.0000
Ovary_t	0.0101
Endocrine tissue	0.0000
Fetal	0.0181
Gastrointestinal	0.0000
Hematopoietic	0.0114
Skin-muscle	0.0130
Testicles	0.0154
Lung	0.0082
Nerves	0.0060
Prostate	0.0069
Sensory Organs	0.0000
Uterus_n	0.0416

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	NORMAL % frequency	TUMOR % frequency	Ratios N/T		T/N
Bladder	0.0234	0.0000	undef	0.0000	
Breast	0.0000	0.0000	undef	undef	
Small intestine	0.0000	0.0000	undef	undef	
Ovary	0.0000	0.0000	undef	undef	
Endocrine tissue	0.0000	0.0000	undef	undef	
Gastrointestinal	0.0000	0.0000	undef	undef	
Brain	0.0000	0.0000	undef	undef	
Hematopoietic	0.0000	0.0000	undef	undef	
Skin	0.0000	0.0000	undef	undef	
Hepatic	0.0000	0.0000	undef	undef	
Heart	0.0000	0.0000	undef	undef	
Testicles	0.0000	0.0000	undef	undef	
Lung	0.0000	0.0000	undef	undef	
Stomach-esophagus	0.0000	0.0000	undef	undef	
Muscle-skeleton	0.0000	0.0000	undef	undef	
Kidney	0.0000	0.0000	undef	undef	
Pancreas	0.0000	0.0000	undef	undef	
Penis	0.0000	0.0000	undef	undef	
Prostate	0.0000	0.0000	undef	undef	
Uterus-endometrium	0.0000	0.0000	undef	undef	
Uterus-myometrium	0.0000	0.0000	undef	undef	
Uterus-general	0.0000				
Breast hyperplasia	0.0000				
Prostate hyperplasia	0.0000				
Seminal vesicle	0.0000				
Sensory organs	0.0000				
White blood cells	0.0000				
Cervix					

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

Electronic Northern for SEQ. ID NO.: 26

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0429	0.0000	undef	0.0000
Breast	0.0013	0.0000	undef	0.0000
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0030	0.0026	1.1513	0.8686
Endocrine tissue	0.0034	0.0000	undef	0.0000
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0015	0.0000	undef	0.0000
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0077	0.0000	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0054	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0090	0.0000	undef	0.0000
Prostate	0.0000	0.0043	0.0000	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0076	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0089			
Sensory organs	0.0235			
White blood cells	0.0026			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0139	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0245
Skin	0.0000	Fetal	0.0012
Hepatic	0.0260	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0171
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0042
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 27

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0000	undef	0.0000
Breast	0.0090	0.0056	1.5879	0.6298
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0060	0.0052	1.1513	0.8686
Endocrine tissue	0.0034	0.0075	0.4528	2.2083
Gastrointestinal	0.0077	0.0000	undef	0.0000
Brain	0.0030	0.0051	0.5760	1.7362
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0021	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0010	0.0020	0.5080	1.9684
Stomach-esophagus	0.0290	0.0000	undef	0.0000
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0054	0.0068	0.7930	1.2610
Pancreas	0.0017	0.0000	undef	0.0000
Penis	0.0090	0.0000	undef	0.0000
Prostate	0.0065	0.0043	1.5354	0.6513
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0152	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0059			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development 0.0000
Gastrointestinal 0.0000
Brain 0.0125
Hematopoietic 0.0039
Skin 0.0000
Hepatic 0.0260
Heart-blood vessels 0.0071
Lung 0.0000
Suprarenal gland 0.0000
Kidney 0.0000
Placenta 0.0000
Prostate 0.0000
Sensory organs 0.0126

Breast 0.0000
Ovary_n 0.0000
Ovary_t 0.0000
Endocrine tissue 0.0245
Fetal 0.0064
Gastrointestinal 0.0000
Hematopoietic 0.0114
Skin-muscle 0.0063
Testicles 0.0154
Lung 0.0000
Nerves 0.0050
Prostate 0.0205
Sensory Organs 0.0000
Uterus_n 0.0167

30999 0482255

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0051	6.1018	0.1639
Breast	0.0307	0.0019	16.3327	0.0612
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0120	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0075	0.0000	undef
Gastrointestinal	0.0057	0.0093	0.6213	1.6096
Brain	0.0015	0.0062	0.2400	4.1669
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0147	0.0000	undef	0.0000
Hepatic	0.0095	0.0065	1.4706	0.6800
Heart	0.0138	0.0412	0.3341	2.9932
Testicles	0.0403	0.0000	undef	0.0000
Lung	0.0114	0.0061	1.8628	0.5368
Stomach-esophagus	0.0193	0.0153	1.2605	0.7933
Muscle-skeleton	0.0274	0.0300	0.9138	1.0944
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0050	0.0331	0.1496	6.6857
Penis	0.0359	0.0000	undef	0.0000
Prostate	0.0044	0.0021	2.0473	0.4885
Uterus-endometrium	0.0203	0.0000	undef	0.0000
Uterus-myometrium	0.0686	0.0679	1.0100	0.9901
Uterus-general	0.0458	0.0000	undef	0.0000
Breast hyperplasia	0.0128			
Prostate hyperplasia	0.0119			
Seminal vesicle	0.0000			
Sensory organs	0.0118			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0213			

	FETUS % frequency	STANDARDIZED/SUBTRACTED LIBRARIES % frequency	
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0111	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0023
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0036	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0097
Suprarenal gland	0.0000	Testicles	0.0077
Kidney	0.0124	Lung	0.0410
Placenta	0.0061	Nerves	0.0010
Prostate	0.0249	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	0.0250

Electronic Northern for SEQ. ID NO.: 30

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0017	0.0000	undef	0.0000
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0021	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0022	0.0021	1.0236	0.9769
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0059			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

	FETUS	STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0056	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0041
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0010
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0125

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	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0000	undef	0.0000
Breast	0.0038	0.0000	undef	0.0000
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0053	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0069	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0033	0.0055	0.5983	1.6714
Penis	0.0060	0.0000	undef	0.0000
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0076	0.0068	1.1223	0.8911
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0107	Hematopoietic	0.0000
Lung	0.0072	Skin-muscle	0.0000
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0499	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

Electronic Northern for SEQ. ID NO.: 32

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0026	9.1527	0.1093
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0000	0.0050	0.0000	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0097	0.0000	undef	0.0000
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0017			
White blood cells	0.0000			
Cervix				

		FETUS	STANDARDIZED/SUBTRACTED
		% frequency	LIBRARIES
			% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0052
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0057
Lung	0.0000	Skin-muscle	0.0032
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0121	Nerves	0.0068
Prostate	0.0000	Prostate	0.0077
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 34

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

		FETUS	STANDARDIZED/SUBTRACTED	
		% frequency	LIBRARIES	
			% frequency	
Development	0.0000	Breast		0.0000
Gastrointestinal	0.0000	Ovary_n		0.0000
Brain	0.0000	Ovary_t		0.0000
Hematopoietic	0.0000	Endocrine tissue		0.0000
Skin	0.0000	Fetal		0.0000
Hepatic	0.0000	Gastrointestinal		0.0000
Heart-blood vessels	0.0000	Hematopoietic		0.0000
Lung	0.0000	Skin-muscle		0.0000
Suprarenal gland	0.0000	Testicles		0.0000
Kidney	0.0000	Lung		0.0000
Placenta	0.0000	Nerves		0.0000
Prostate	0.0000	Prostate		0.0000
Sensory organs	0.0000	Sensory Organs		0.0000
		Uterus_n		0.0042

T33EE "DBEE" 4550

Electronic Northern for SEQ. ID NO.: 38

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0051	5.3391	0.1873
Breast	0.0026	0.0075	0.3403	2.9389
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0068	0.0125	0.5434	1.8403
Gastrointestinal	0.0019	0.0046	0.4142	2.4145
Brain	0.0081	0.0031	2.6399	0.3788
Hematopoietic	0.0040	0.0000	undef	0.0000
Skin	0.0257	0.0000	undef	0.0000
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0064	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0042	0.0102	0.4064	2.4605
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0069	0.0000	undef	0.0000
Kidney	0.0136	0.0205	0.6609	1.5132
Pancreas	0.0033	0.0000	undef	0.0000
Penis	0.0090	0.0000	undef	0.0000
Prostate	0.0109	0.0021	5.1181	0.1954
Uterus-endometrium	0.0068	0.0528	0.1280	7.8106
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0128			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0089			
Sensory organs	0.0235			
White blood cells	0.0009			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0056	Ovary_n	0.0000
Brain	0.0125	Ovary_t	0.0051
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0107	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0000
Suprarenal gland	0.0507	Testicles	0.0000
Kidney	0.0000	Lung	0.0164
Placenta	0.0000	Nerves	0.0070
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

09573840 073064
073064 073064

Electronic Northern for SEQ. ID NO.: 46

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Suprarenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Breast	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0000
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles	0.0000
Lung	0.0000
Nerves	0.0000
Prostate	0.0000
Sensory Organs	0.0000
Uterus_n	0.0000

F09673840-036634

Electronic Northern for SEQ. ID NO.: 47

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0010	0.0000	undef
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0010	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

72333 0353 0353

Electronic Northern for SEQ. ID NO.: 48

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0000	undef	0.0000
Breast	0.0013	0.0019	0.6805	1.4694
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0030	0.0052	0.5756	1.7372
Endocrine tissue	0.0017	0.0025	0.6792	1.4722
Gastrointestinal	0.0019	0.0046	0.4142	2.4145
Brain	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0042	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0010	0.0020	0.5080	1.9684
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0034	0.0000	undef	0.0000
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0022	0.0021	1.0236	0.9769
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0068	0.0000	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0064			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0017			
White blood cells	0.0000			
Cervix				

FETUS	STANDARDIZED/SUBTRACTED
% frequency	LIBRARIES
	% frequency
Development	Breast
Gastrointestinal	Ovary_n
Brain	Ovary_t
Hematopoietic	Endocrine tissue
Skin	Fetal
Hepatic	Gastrointestinal
Heart-blood vessels	Hematopoietic
Lung	Skin-muscle
Suprarenal gland	Testicles
Kidney	Lung
Placenta	Nerves
Prostate	Prostate
Sensory organs	Sensory Organs
	Uterus_n

0.0000
0.0000
0.0000
0.0000
0.0017
0.0000
0.0000
0.0000
0.0000
0.0060
0.0000
0.0000
0.0000

05673840 030604

Electronic Northern for SEQ. ID NO.: 51

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0026	0.0000	undef	0.0000
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0060	0.0078	0.7675	1.3029
Endocrine tissue	0.0034	0.0025	1.3585	0.7361
Gastrointestinal	0.0057	0.0000	undef	0.0000
Brain	0.0022	0.0021	1.0799	0.9260
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0053	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0031	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0166	0.0000	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0022	0.0000	undef	0.0000
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0026			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0136
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0041
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0057
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0061	Nerves	0.0000
Prostate	0.0000	Prostate	0.0068
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

00673840-034004

	NORMAL % frequency	TUMOR % frequency	Ratios N/T		T/N
Bladder	0.0312	0.0000	undef	0.0000	
Breast	0.0000	0.0000	undef	undef	
Small intestine	0.0000	0.0000	undef	undef	
Ovary	0.0000	0.0000	undef	undef	
Endocrine tissue	0.0000	0.0000	undef	undef	
Gastrointestinal	0.0000	0.0000	undef	undef	
Brain	0.0000	0.0010	0.0000	undef	
Hematopoietic	0.0000	0.0000	undef	undef	
Skin	0.0037	0.0000	undef	0.0000	
Hepatic	0.0000	0.0000	undef	undef	
Heart	0.0000	0.0000	undef	undef	
Testicles	0.0000	0.0000	undef	undef	
Lung	0.0000	0.0000	undef	undef	
Stomach-esophagus	0.0000	0.0000	undef	undef	
Muscle-skeleton	0.0000	0.0000	undef	undef	
Kidney	0.0000	0.0000	undef	undef	
Pancreas	0.0000	0.0000	undef	undef	
Penis	0.0000	0.0000	undef	undef	
Prostate	0.0000	0.0000	undef	undef	
Uterus-endometrium	0.0000	0.0000	undef	undef	
Uterus-myometrium	0.0000	0.0000	undef	undef	
Uterus-general	0.0000				
Breast hyperplasia	0.0000				
Prostate hyperplasia	0.0000				
Seminal vesicle	0.0000				
Sensory organs	0.0000				
White blood cells	0.0000				
Cervix					

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	

Electronic Northern for SEQ. ID NO.: 53

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0195	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0010	0.0000	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0055	0.0000	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0076	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0032
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0020
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0195	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0093	0.0000	undef
Brain	0.0000	0.0010	0.0000	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0020	0.0000	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0055	0.0000	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0076	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0064			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0106			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0057
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	

Electronic Northern for SEQ. ID NO.: 55

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0077	0.0000	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

	FETUS	STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 56

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0026	0.0000	undef	0.0000
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0051	0.0000	undef	0.0000
Gastrointestinal	0.0038	0.0093	0.4142	2.4145
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0010	0.0020	0.5080	1.9684
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0054	0.0068	0.7930	1.2610
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0022	0.0043	0.5118	1.9538
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0030			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS	STANDARDIZED/SUBTRACTED
% frequency	LIBRARIES
	% frequency
Development	Breast
Gastrointestinal	Ovary_n
Brain	Ovary_t
Hematopoietic	Endocrine tissue
Skin	Fetal
Hepatic	Gastrointestinal
Heart-blood vessels	Hematopoietic
Lung	Skin-muscle
Suprarenal gland	Testicles
Kidney	Lung
Placenta	Nerves
Prostate	Prostate
Sensory organs	Sensory Organs
	Uterus_n

0.0136
0.0000
0.0000
0.0000
0.0012
0.0122
0.0228
0.0000
0.0000
0.0082
0.0040
0.0000
0.0000
0.0000
0.0083

0.0156
0.0026
0.0000
0.0030
0.0051
0.0038
0.0000
0.0000
0.0037
0.0000
0.0011
0.0000
0.0010
0.0000
0.0017
0.0054
0.0000
0.0000
0.0022
0.0000
0.0000
0.0000
0.0009
0.0000

Electronic Northern for SEQ. ID NO.: 58

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0026	9.1527	0.1093
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

05673000 011160
F051E0 04024950

Electronic Northern for SEQ. ID NO.: 60

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0051	0.0038	1.3611	0.7347
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0051	0.0000	undef	0.0000
Gastrointestinal	0.0038	0.0000	undef	0.0000
Brain	0.0022	0.0021	1.0799	0.9260
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0021	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0060	0.0000	undef
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0050	0.0000	undef	0.0000
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0021	0.0000	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0051	0.0000	undef	0.0000
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
		LIBRARIES	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.1595
Brain	0.0000	Ovary_t	0.0203
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0070
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 62

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0019	0.0000	undef	0.0000
Brain	0.0022	0.0010	2.1599	0.4630
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0043	0.0000	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequencySTANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0063
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Suprarenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

Breast	0.0068
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0006
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles	0.0000
Lung	0.0000
Nerves	0.0068
Prostate	0.0000
Sensory Organs	0.0000
Uterus_n	

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	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0351	0.0051	6.8645	0.1457
Breast	0.0026	0.0075	0.3403	2.9389
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0000	0.0052	0.0000	undef
Endocrine tissue	0.0034	0.0000	undef	0.0000
Gastrointestinal	0.0019	0.0046	0.4142	2.4145
Brain	0.0015	0.0041	0.3600	2.7779
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0000	0.0000	undef	undef
Testicles	0.0058	0.0117	0.4920	2.0326
Lung	0.0042	0.0041	1.0161	0.9842
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0027	0.0000	undef	0.0000
Kidney	0.0017	0.0000	undef	0.0000
Pancreas	0.0030	0.0000	undef	0.0000
Penis	0.0022	0.0000	undef	0.0000
Prostate	0.0068	0.0000	undef	0.0000
Uterus-endometrium	0.0076	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0089			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0118			
Sensory organs	0.0009			
White blood cells	0.0106			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0278	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0012
Skin	0.0000	Fetal	0.0122
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0097
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0050
Placenta	0.0061	Nerves	0.0068
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0042
		Uterus_n	

Electronic Northern for SEQ. ID NO.: 69

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0858	0.0077	11.1866	0.0894
Breast	0.0102	0.0075	1.3611	0.7347
Small intestine	0.0092	0.0000	undef	0.0000
Ovary	0.0060	0.0260	0.2303	4.3431
Endocrine tissue	0.0068	0.0125	0.5434	1.8403
Gastrointestinal	0.0038	0.0278	0.1381	7.2434
Brain	0.0022	0.0144	0.1543	6.4818
Hematopoietic	0.0013	0.0379	0.0353	28.3379
Skin	0.0734	0.1695	0.4332	2.3084
Hepatic	0.0000	0.0194	0.0000	undef
Heart	0.0159	0.0137	1.1565	0.8647
Testicles	0.0000	0.0468	0.0000	undef
Lung	0.0073	0.0164	0.4445	2.2496
Stomach-esophagus	0.0000	0.0230	0.0000	undef
Muscle-skeleton	0.0069	0.0180	0.3807	2.6265
Kidney	0.0163	0.0000	undef	0.0000
Pancreas	0.0066	0.0055	1.1966	0.8357
Penis	0.0210	0.0267	0.7862	1.2719
Prostate	0.0044	0.0021	2.0473	0.4885
Uterus-endometrium	0.0338	0.0000	undef	0.0000
Uterus-myometrium	0.0076	0.0068	1.1223	0.8911
Uterus-general	0.0255	0.0000	undef	0.0000
Breast hyperplasia	0.0128			
Prostate hyperplasia	0.0119			
Seminal vesicle	0.0000			
Sensory organs	0.0235			
White blood cells	0.0000			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	
Gastrointestinal	0.0139
Brain	0.0028
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0462
Suprarenal gland	0.0036
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

Breast	0.0000
Ovary_n	0.0000
Ovary_t	0.0051
Endocrine tissue	0.0245
Fetal	0.0128
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0227
Testicles	0.0154
Lung	0.0000
Nerves	0.0171
Prostate	0.0068
Sensory Organs	0.0155
Uterus_n	0.0000

Electronic Northern for SEQ. ID NO.: 72

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0585	0.0077	7.6272	0.1311
Breast	0.0192	0.0019	10.2079	0.0980
Small intestine	0.0123	0.0000	undef	0.0000
Ovary	0.0090	0.0052	1.7269	0.5791
Endocrine tissue	0.0000	0.0075	0.0000	undef
Gastrointestinal	0.0307	0.0000	undef	0.0000
Brain	0.0118	0.0062	1.9199	0.5209
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0184	0.0000	undef	0.0000
Hepatic	0.0190	0.0065	2.9412	0.3400
Heart	0.0244	0.0000	undef	0.0000
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0010	0.0041	0.2540	3.9367
Stomach-esophagus	0.0000	0.0077	0.0000	undef
Muscle-skeleton	0.0086	0.0000	undef	0.0000
Kidney	0.0054	0.0000	undef	0.0000
Pancreas	0.0033	0.0000	undef	0.0000
Penis	0.0509	0.0000	undef	0.0000
Prostate	0.0153	0.0085	1.7913	0.5582
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0152	0.0000	undef	0.0000
Uterus-general	0.0102	0.0000	undef	0.0000
Breast hyperplasia	0.0320			
Prostate hyperplasia	0.0238			
Seminal vesicle	0.0089			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development 0.0000
Gastrointestinal 0.0167
Brain 0.0000
Hematopoietic 0.0000
Skin 0.0000
Hepatic 0.0000
Heart-blood vessels 0.0071
Lung 0.0036
Suprarenal gland 0.0000
Kidney 0.0000
Placenta 0.0061
Prostate 0.0000
Sensory organs 0.0251

Breast 0.0204
Ovary_n 0.0000
Ovary_t 0.0101
Endocrine tissue 0.0082
Fetal 0.0000
Gastrointestinal 0.0000
Hematopoietic 0.0162
Skin-muscle 0.0000
Testicles 0.0082
Lung 0.0040
Nerves 0.0068
Prostate 0.0155
Sensory Organs 0.0000
Uterus_n

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Electronic Northern for SEQ. ID NO.: 73

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0013	0.0000	undef	0.0000
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0139	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 75

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0013	0.0000	undef	0.0000
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0025	0.0000	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0010	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0057
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

ADDED "B" 12/2/95

Electronic Northern for SEQ. ID NO.: 78

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0093	0.0000	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0412	0.0257	38.9118
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0020	0.0000	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development		Breast	0.0000
Gastrointestinal	0.0278	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

78554-0425-0357

Electronic Northern for SEQ. ID NO.: 79

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0351	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 83				
	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0273	0.0026	10.6781	0.0936
Breast	0.0013	0.0000	undef	0.0000
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0017	0.0025	0.6792	1.4722
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0229	0.0031	7.4396	0.1344
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0052	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0050	0.0000	undef	0.0000
Penis	0.0000	0.0000	undef	undef
Prostate	0.0044	0.0021	2.0473	0.4885
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0068
Gastrointestinal	0.0029	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0253
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0006
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0201
Placenta	0.0061	Nerves	0.0068
Prostate	0.0000	Prostate	0.0310
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	

Electronic Northern for Bug: 15 No	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N

FETUS
% frequency

% frequency

Breast	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0000
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles	0.0000
Lung	0.0000
Nerves	0.0000
Prostate	0.0000
Sensory Organs	0.0000
Uterus_n	

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0051	5.3391	0.1873
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0017	0.0000	undef	0.0000
Gastrointestinal	0.0019	0.0000	undef	0.0000
Brain	0.0000	0.0010	0.0000	undef
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0021	0.0041	0.5080	1.9684
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0060	0.0000	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0044	0.0000	undef	0.0000
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0139	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	

	NORMAL	TUMOR		Ratios
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0051	0.0000	undef	0.0000
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0021	0.0020	1.0161	0.9842
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0022	0.0043	0.5118	1.9538
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	
		% frequency	
Development	0.0000	Breast	0.0068
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0052
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0386
Kidney	0.0062	Lung	0.0000
Placenta	0.0000	Nerves	0.0068
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0208
		Uterus_n	

Electronic Northern for SEQ. ID NO.: 90

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0015	0.0010	1.4399	0.6945
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

		FETUS	STANDARDIZED/SUBTRACTED
		% frequency	LIBRARIES
			% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0006
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0010
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0051	6.1018	0.1639
Breast	0.0102	0.0113	0.9074	1.1021
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0051	0.0125	0.4075	2.4537
Gastrointestinal	0.0077	0.0000	undef	0.0000
Brain	0.0067	0.0329	0.2025	4.9386
Hematopoietic	0.0080	0.0000	undef	0.0000
Skin	0.0330	0.0000	undef	0.0000
Hepatic	0.0333	0.0323	1.0294	0.9714
Heart	0.0127	0.0137	0.9252	1.0809
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0156	0.0082	1.9051	0.5249
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0051	0.0120	0.4283	2.3347
Kidney	0.0027	0.0205	0.1322	7.5658
Pancreas	0.0050	0.0110	0.4487	2.2286
Penis	0.0060	0.0267	0.2246	4.4517
Prostate	0.0131	0.0128	1.0236	0.9769
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0102	0.0000	undef	0.0000
Breast hyperplasia	0.0128			
Prostate hyperplasia	0.0208			
Seminal vesicle	0.0089			
Sensory organs	0.0113			
Sensory organs	0.0147			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0340
Gastrointestinal	0.0056	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0608
Hematopoietic	0.0079	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0198
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0171
Lung	0.0072	Skin-muscle	0.0032
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0020
Placenta	0.0545	Nerves	0.0068
Prostate	0.0000	Prostate	0.0697
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	

Electronic Northern for SEQ. ID NO.: 93

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0000	undef	0.0000
Breast	0.0166	0.0226	0.7372	1.3564
Small intestine	0.0000	0.0165	0.0000	undef
Ovary	0.0270	0.0000	undef	0.0000
Endocrine tissue	0.0238	0.0276	0.8645	1.1567
Gastrointestinal	0.0115	0.0093	1.2425	0.8048
Brain	0.0089	0.0072	1.2342	0.8102
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0220	0.0000	undef	0.0000
Hepatic	0.0143	0.0518	0.2757	3.6266
Heart	0.0148	0.0000	undef	0.0000
Testicles	0.0230	0.0117	1.9679	0.5082
Lung	0.0218	0.0266	0.8207	1.2185
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0120	0.0120	0.9994	1.0006
Kidney	0.0081	0.0137	0.5948	1.6813
Pancreas	0.0149	0.0221	0.6731	1.4857
Penis	0.0180	0.0000	undef	0.0000
Prostate	0.0240	0.0213	1.1260	0.8881
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0229	0.0340	0.6734	1.4851
Uterus-general	0.0204	0.0000	undef	0.0000
Breast hyperplasia	0.0224			
Prostate hyperplasia	0.0208			
Seminal vesicle	0.0445			
Sensory organs	0.0235			
White blood cells	0.0009			
Cervix	0.0213			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0167	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0079	Endocrine tissue	0.0245
Skin	0.0000	Fetal	0.0099
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0108	Skin-muscle	0.0065
Suprarenal gland	0.0000	Testicles	0.0154
Kidney	0.0000	Lung	0.0000
Placenta	0.0061	Nerves	0.0020
Prostate	0.0000	Prostate	0.0068
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0042

Electronic Northern for SEQ. ID NO.: 94

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0195	0.0026	7.6272	0.1311
Breast	0.0051	0.0094	0.5444	1.8368
Small intestine	0.0092	0.0165	0.5561	1.7982
Ovary	0.0000	0.0052	0.0000	undef
Endocrine tissue	0.0119	0.0150	0.7925	1.2619
Gastrointestinal	0.0019	0.0000	undef	0.0000
Brain	0.0030	0.0103	0.2880	3.4724
Hematopoietic	0.0067	0.0000	undef	0.0000
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0032	0.0000	undef	0.0000
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0052	0.0020	2.5402	0.3937
Stomach-esophagus	0.0000	0.0153	0.0000	undef
Muscle-skeleton	0.0017	0.0120	0.1428	7.0040
Kidney	0.0081	0.0000	undef	0.0000
Pancreas	0.0050	0.0055	0.8974	1.1143
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0022	0.0043	0.5118	1.9538
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0381	0.0068	5.6113	0.1782
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0096			
Prostate hyperplasia	0.0089			
Seminal vesicle	0.0000			
Sensory organs	0.0095			
White blood cells	0.0106			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED LIBRARIES	
	% frequency		% frequency
Development	0.0000	Breast	0.0204
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0709
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.2513	Fetal	0.0070
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0228
Lung	0.0036	Skin-muscle	0.0194
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0185	Lung	0.0010
Placenta	0.0061	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0250
		Uterus_n	

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	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder				
Breast	0.0351	0.0026	13.7290	0.0729
Small intestine	0.0026	0.0094	0.2722	3.6736
Ovary	0.0031	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0026	0.0000	undef
Gastrointestinal	0.0000	0.0075	0.0000	undef
Brain	0.0000	0.0093	0.0000	undef
Hematopoietic	0.0037	0.0051	0.7200	1.3890
Skin	0.0027	0.0000	undef	0.0000
Hepatic	0.0073	0.0000	undef	0.0000
Heart	0.0190	0.0129	1.4706	0.6800
Testicles	0.0064	0.0000	undef	0.0000
Lung	0.0058	0.0117	0.4920	2.0326
Stomach-esophagus	0.0021	0.0061	0.3387	2.9526
Muscle-skeleton	0.0000	0.0077	0.0000	undef
Kidney	0.0000	0.0060	0.0000	undef
Pancreas	0.0081	0.0068	1.1896	0.8406
Penis	0.0050	0.0166	0.2991	3.3428
Prostate	0.0060	0.0000	undef	0.0000
Uterus-endometrium	0.0044	0.0106	0.4095	2.4423
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0068	0.0000	undef
Breast hyperplasia	0.0000	0.0000	undef	undef
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0061			
Cervix	0.0000			

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0063	Ovary_t	0.0000
Hematopoietic	0.0079	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0116
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0036	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0194
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0062	Lung	0.0082
Placenta	0.0000	Nerves	0.0010
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0251	Sensory Organs	0.0155
		Uterus n	0.0208

Electronic Northern for SEQ. ID NO.: 96

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0195	0.0000	undef	0.0000
Breast	0.0090	0.0094	0.9527	1.0496
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0153	0.0176	0.8733	1.1451
Gastrointestinal	0.0096	0.0185	0.5177	1.9316
Brain	0.0081	0.0031	2.6399	0.3788
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0095	0.0000	undef	0.0000
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0052	0.0020	2.5402	0.3937
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0054	0.0000	undef	0.0000
Pancreas	0.0050	0.0055	0.8974	1.1143
Penis	0.0180	0.0000	undef	0.0000
Prostate	0.0022	0.0064	0.3412	2.9308
Uterus-endometrium	0.0135	0.0528	0.2561	3.9053
Uterus-myometrium	0.0076	0.0136	0.5611	1.7821
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0089			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequencySTANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0139	Breast	0.0000
Gastrointestinal	0.0083	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0099
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0071	Hematopoietic	0.0000
Lung	0.0072	Skin-muscle	0.0324
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0062	Lung	0.0328
Placenta	0.0061	Nerves	0.0141
Prostate	0.0000	Nerves	0.0000
Sensory organs	0.0251	Prostate	0.0000
		Sensory Organs	0.0167
		Uterus_n	

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Electronic Northern for SEQ. ID NO.: 97

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0195	0.0000	undef	0.0000
Breast	0.0064	0.0038	1.7013	0.5878
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0030	0.0156	0.1919	5.2117
Endocrine tissue	0.0136	0.0251	0.5434	1.8403
Gastrointestinal	0.0134	0.0139	0.9664	1.0348
Brain	0.0074	0.0277	0.2667	3.7502
Hematopoietic	0.0134	0.0000	undef	0.0000
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0048	0.0065	0.7353	1.3600
Heart	0.0127	0.0412	0.3084	3.2426
Testicles	0.0115	0.0585	0.1968	5.0816
Lung	0.0104	0.0204	0.5080	1.9684
Stomach-esophagus	0.0193	0.0230	0.8404	1.1900
Muscle-skeleton	0.0120	0.0240	0.4997	2.0011
Kidney	0.0054	0.0068	0.7930	1.2610
Pancreas	0.0083	0.0331	0.2493	4.0114
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0240	0.0277	0.8661	1.1545
Uterus-endometrium	0.0000	0.1055	0.0000	undef
Uterus-myometrium	0.0152	0.0000	undef	0.0000
Uterus-general	0.0153	0.0000	undef	0.0000
Breast hyperplasia	0.0064			
Prostate hyperplasia	0.0178			
Seminal vesicle	0.0089			
Sensory organs	0.0000			
White blood cells	0.0113			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0111	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0036	Hematopoietic	0.0000
Lung	0.0181	Skin-muscle	0.0065
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0124	Lung	0.0082
Placenta	0.0000	Nerves	0.0070
Prostate	0.0249	Prostate	0.0068
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

TOOED "07924552"

Electronic Northern for SEQ. ID NO.: 98

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0026	0.0113	0.2268	4.4083
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0060	0.0026	2.3025	0.4343
Endocrine tissue	0.0119	0.0100	1.1887	0.8413
Gastrointestinal	0.0077	0.0000	undef	0.0000
Brain	0.0229	0.0062	3.7198	0.2688
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0000	0.0847	0.0000	undef
Hepatic	0.0095	0.0000	undef	0.0000
Heart	0.0032	0.0000	undef	0.0000
Testicles	0.0115	0.0000	undef	0.0000
Lung	0.0062	0.0041	1.5241	0.6561
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0027	0.0137	0.1983	5.0439
Pancreas	0.0033	0.0055	0.5983	1.6714
Penis	0.0090	0.0000	undef	0.0000
Prostate	0.0044	0.0064	0.6824	1.4654
Uterus-endometrium	0.0000	0.0528	0.0000	undef
Uterus-myometrium	0.0000	0.0136	0.0000	undef
Uterus-general	0.0051	0.0954	0.0534	18.7357
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0061			
White blood cells	0.0106			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0557	Breast	0.0068
Gastrointestinal	0.0083	Ovary_n	0.0000
Brain	0.0188	Ovary_t	0.0051
Hematopoietic	0.0039	Endocrine tissue	0.0245
Skin	0.0000	Fetal	0.0175
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0142	Hematopoietic	0.0114
Lung	0.0000	Skin-muscle	0.0389
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0062	Lung	0.0164
Placenta	0.0000	Nerves	0.0251
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0251	Sensory Organs	0.0310
		Uterus_n	0.0208

19950104 04354950

Electronic Northern for SEQ. ID NO.: 99

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0026	12.2035	0.0819
Breast	0.0166	0.0132	1.2638	0.7912
Small intestine	0.0061	0.0000	undef	0.0000
Ovary	0.0090	0.0026	3.4538	0.2895
Endocrine tissue	0.0085	0.0025	3.3962	0.2944
Gastrointestinal	0.0115	0.0231	0.4970	2.0121
Brain	0.0074	0.0082	0.8999	1.1112
Hematopoietic	0.0120	0.0379	0.3176	3.1487
Skin	0.0147	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0085	0.0275	0.3084	3.2426
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0104	0.0061	1.6934	0.5905
Stomach-esophagus	0.0193	0.0000	undef	0.0000
Muscle-skeleton	0.0051	0.0180	0.2856	3.5020
Kidney	0.0109	0.0274	0.3965	2.5219
Pancreas	0.0017	0.0000	undef	0.0000
Penis	0.0150	0.0000	undef	0.0000
Prostate	0.0022	0.0000	undef	0.0000
Uterus-endometrium	0.0203	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0255	0.0000	undef	0.0000
Breast hyperplasia	0.0224			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0089			
Sensory organs	0.0118			
White blood cells	0.0113			
Cervix	0.0106			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0139	Breast	0.0000
Gastrointestinal	0.0111	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0035
Hepatic	0.0260	Gastrointestinal	0.0000
Heart-blood vessels	0.0107	Hematopoietic	0.0057
Lung	0.0036	Skin-muscle	0.0130
Suprarenal gland	0.0507	Testicles	0.0000
Kidney	0.0247	Lung	0.0000
Placenta	0.0061	Nerves	0.0040
Prostate	0.0000	Prostate	0.0205
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0042

759523 04914989

Electronic Northern for SEQ. ID NO.: 100

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder				
Breast	0.0156	0.0000	undef	0.0000
Small intestine	0.0051	0.0056	0.9074	1.1021
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0030	0.0026	1.1513	0.8686
Gastrointestinal	0.0000	0.0075	0.0000	undef
Brain	0.0000	0.0000	undef	undef
Hematopoietic	0.0030	0.0051	0.5760	1.7362
Skin	0.0013	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0021	0.0137	0.1542	6.4853
Lung	0.0058	0.0000	undef	0.0000
Stomach-esophagus	0.0052	0.0041	1.2701	0.7873
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0034	0.0000	undef	0.0000
Pancreas	0.0027	0.0000	undef	0.0000
Penis	0.0000	0.0055	0.0000	undef
Prostate	0.0060	0.0000	undef	0.0000
Uterus-endometrium	0.0044	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0136	0.0000	undef
Breast hyperplasia	0.0000	0.0000	undef	undef
Prostate hyperplasia	0.0032			
Seminal vesicle	0.0000			
Sensory organs	0.0089			
White blood cells	0.0000			
Cervix	0.0061			
	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Suprarenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

Breast	0.0068
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0006
Gastrointestinal	0.0122
Hematopoietic	0.0000
Skin-muscle	0.0065
Testicles	0.0000
Lung	0.0000
Nerves	0.0030
Prostate	0.0000
Sensory Organs	0.0000
Uterus_n	0.0125

00573840 030604

Electronic Northern for SEQ. ID NO.: 101

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0234	0.0026	9.1527	0.1093
Breast	0.0077	0.0094	0.8166	1.2245
Small intestine	0.0123	0.0000	undef	0.0000
Ovary	0.0060	0.0000	undef	0.0000
Endocrine tissue	0.0034	0.0050	0.6792	1.4722
Gastrointestinal	0.0057	0.0139	0.4142	2.4145
Brain	0.0015	0.0021	0.7200	1.3890
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0048	0.0129	0.3676	2.7200
Heart	0.0074	0.0000	undef	0.0000
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0052	0.0020	2.5402	0.3937
Stomach-esophagus	0.0097	0.0077	1.2605	0.7933
Muscle-skeleton	0.0069	0.0000	undef	0.0000
Kidney	0.0081	0.0137	0.5948	1.6813
Pancreas	0.0000	0.0166	0.0000	undef
Penis	0.0150	0.0800	0.1872	5.3421
Prostate	0.0109	0.0085	1.2795	0.7815
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0076	0.0000	undef	0.0000
Uterus-general	0.0102	0.0000	undef	0.0000
Breast hyperplasia	0.0064			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0000			
Sensory organs	0.0118			
White blood cells	0.0078			
Cervix	0.0213			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0408
Gastrointestinal	0.0056	Ovary_n	0.1595
Brain	0.0000	Ovary_t	0.0101
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0029
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0108	Skin-muscle	0.0130
Suprarenal gland	0.0000	Testicles	0.0154
Kidney	0.0000	Lung	0.0082
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

199501 04224950

	NORMAL % frequency	TUMOR % frequency	Ratios N/T		T/N
Bladder	0.0156	0.0000	undef	0.0000	
Breast	0.0026	0.0000	undef	0.0000	
Small intestine	0.0000	0.0000	undef	undef	
Ovary	0.0000	0.0000	undef	undef	
Endocrine tissue	0.0000	0.0025	0.0000	undef	
Gastrointestinal	0.0000	0.0000	undef	undef	
Brain	0.0015	0.0010	1.4399	0.6945	
Hematopoietic	0.0000	0.0000	undef	undef	
Skin	0.0073	0.0000	undef	0.0000	
Hepatic	0.0000	0.0000	undef	undef	
Heart	0.0021	0.0000	undef	0.0000	
Testicles	0.0000	0.0000	undef	undef	
Lung	0.0000	0.0000	undef	undef	
Stomach-esophagus	0.0000	0.0000	undef	undef	
Muscle-skeleton	0.0000	0.0000	undef	undef	
Kidney	0.0000	0.0000	undef	undef	
Pancreas	0.0017	0.0000	undef	0.0000	
Penis	0.0030	0.0000	undef	0.0000	
Prostate	0.0065	0.0021	3.0709	0.3256	
Uterus-endometrium	0.0000	0.0000	undef	undef	
Uterus-myometrium	0.0000	0.0000	undef	undef	
Uterus-general	0.0102	0.0000	undef	0.0000	
Breast hyperplasia	0.0000				
Prostate hyperplasia	0.0030				
Seminal vesicle	0.0000				
Sensory organs	0.0000				
White blood cells	0.0000				
Cervix					

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0204
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0070
Hepatic	0.0260	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0030
Placenta	0.0000	Nerves	0.0137
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0083
		Uterus n	

Electronic Northern for SEQ. ID NO.: 104

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0051	6.1018	0.1639
Breast	0.0102	0.0056	1.8147	0.5510
Small intestine	0.0092	0.0000	undef	0.0000
Ovary	0.0180	0.0104	1.7269	0.5791
Endocrine tissue	0.0085	0.0176	0.4852	2.0611
Gastrointestinal	0.0172	0.0046	3.7275	0.2683
Brain	0.0126	0.0123	1.0199	0.9804
Hematopoietic	0.0040	0.0758	0.0529	18.8919
Skin	0.0257	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0138	0.0275	0.5011	1.9955
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0145	0.0102	1.4225	0.7030
Stomach-esophagus	0.0000	0.0077	0.0000	undef
Muscle-skeleton	0.0206	0.0000	undef	0.0000
Kidney	0.0190	0.0137	1.3878	0.7206
Pancreas	0.0050	0.0110	0.4487	2.2286
Penis	0.0180	0.0000	undef	0.0000
Prostate	0.0087	0.0000	undef	0.0000
Uterus-endometrium	0.0203	0.0000	undef	0.0000
Uterus-myometrium	0.0152	0.0136	1.1223	0.8911
Uterus-general	0.0153	0.0000	undef	0.0000
Breast hyperplasia	0.0096			
Prostate hyperplasia	0.0149			
Seminal vesicle	0.0089			
Sensory organs	0.0353			
White blood cells	0.0043			
Cervix	0.0000			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development 0.0000
Gastrointestinal 0.0056
Brain 0.0000
Hematopoietic 0.0039
Skin 0.0000
Hepatic 0.0260
Heart-blood vessels 0.0036
Lung 0.0000
Suprarenal gland 0.0000
Kidney 0.0185
Placenta 0.1030
Prostate 0.0000
Sensory organs 0.0251

Breast 0.0204
Ovary_n 0.1595
Ovary_t 0.0253
Endocrine tissue 0.0000
Fetal 0.0192
Gastrointestinal 0.0122
Hematopoietic 0.0057
Skin-muscle 0.0324
Testicles 0.0154
Lung 0.0000
Nerves 0.0151
Prostate 0.0000
Sensory Organs 0.0077
Uterus_n 0.0208

TABLE 10-10-10

Electronic Northern for SEQ. ID NO.: 105

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0115	0.0132	0.8750	1.1429
Small intestine	0.0092	0.0000	undef	0.0000
Ovary	0.0090	0.0052	1.7269	0.5791
Endocrine tissue	0.0034	0.0050	0.6792	1.4722
Gastrointestinal	0.0115	0.0000	undef	0.0000
Brain	0.0030	0.0041	0.7200	1.3890
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0000	0.0129	0.0000	undef
Heart	0.0127	0.0000	undef	0.0000
Testicles	0.0000	0.0117	0.0000	undef
Lung	0.0042	0.0000	undef	0.0000
Stomach-esophagus	0.0097	0.0000	undef	0.0000
Muscle-skeleton	0.0051	0.0000	undef	0.0000
Kidney	0.0027	0.0068	0.3965	2.5219
Pancreas	0.0050	0.0000	undef	0.0000
Penis	0.0180	0.0000	undef	0.0000
Prostate	0.0109	0.0085	1.2795	0.7815
Uterus-endometrium	0.0068	0.0000	undef	0.0000
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0051	0.0000	undef	0.0000
Breast hyperplasia	0.0064			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0178			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0319			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0125	Ovary_t	0.0051
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0099
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0107	Hematopoietic	0.0000
Lung	0.0108	Skin-muscle	0.0259
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0000	Lung	0.0082
Placenta	0.0121	Nerves	0.0100
Prostate	0.0249	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0042

09573640 070607
F0000 04052550

Electronic Northern for SEQ. ID NO.: 109

	NORMAL	TUMOR	Ratios		
	% frequency	% frequency	N/T		T/N
Bladder	0.0507	0.0179	2.8330	0.3530	
Breast	0.0153	0.0000	undef	0.0000	
Small intestine	0.0276	0.0000	undef	0.0000	
Ovary	0.0270	0.0000	undef	0.0000	
Endocrine tissue	0.0119	0.0075	1.5849	0.6309	
Gastrointestinal	0.0096	0.0046	2.0708	0.4829	
Brain	0.0044	0.0010	4.3198	0.2315	
Hematopoietic	0.0000	0.0000	undef	undef	
Skin	0.0000	0.0000	undef	undef	
Hepatic	0.0000	0.0065	0.0000	undef	
Heart	0.0201	0.0000	undef	0.0000	
Testicles	0.0115	0.0000	undef	0.0000	
Lung	0.0073	0.0000	undef	0.0000	
Stomach-esophagus	0.0580	0.0230	2.5211	0.3967	
Muscle-skeleton	0.0771	0.0000	undef	0.0000	
Kidney	0.0000	0.0068	0.0000	undef	
Pancreas	0.0033	0.0221	0.1496	6.6857	
Penis	0.0210	0.0000	undef	0.0000	
Prostate	0.0174	0.0106	1.6378	0.6106	
Uterus-endometrium	0.0068	0.0000	undef	0.0000	
Uterus-myometrium	0.0229	0.0068	3.3668	0.2970	
Uterus-general	0.0357	0.0000	undef	0.0000	
Breast hyperplasia	0.0096				
Prostate hyperplasia	0.0149				
Seminal vesicle	0.0534				
Sensory organs	0.0000				
White blood cells	0.0000				
Cervix	0.0000				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	0.0816
Gastrointestinal	0.0083	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0041
Hepatic	0.0000	Gastrointestinal	0.0244
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0097
Suprarenal gland	0.0507	Testicles	0.0000
Kidney	0.0062	Lung	0.0000
Placenta	0.0242	Nerves	0.0030
Prostate	0.0748	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0042

0573044 030504

Electronic Northern for SEQ. ID NO.: 111

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0026	12.2035	0.0819
Breast	0.0051	0.0019	2.7221	0.3674
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0017	0.0025	0.6792	1.4722
Gastrointestinal	0.0038	0.0000	undef	0.0000
Brain	0.0022	0.0041	0.5400	1.8520
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0011	0.0137	0.0771	12.9706
Testicles	0.0000	0.0000	undef	undef
Lung	0.0021	0.0020	1.0161	0.9842
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0034	0.0000	undef	0.0000
Kidney	0.0081	0.0000	undef	0.0000
Pancreas	0.0017	0.0055	0.2991	3.3428
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0044	0.0021	2.0473	0.4885
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0076	0.0000	undef	0.0000
Uterus-general	0.0051	0.0000	undef	0.0000
Breast hyperplasia	0.0032			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
		LIBRARIES	
	% frequency		% frequency
Development	0.0000	Breast	0.0340
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0065
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0124	Lung	0.0082
Placenta	0.0121	Nerves	0.0020
Prostate	0.0000	Prostate	0.0205
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

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	NORMAL % frequency	TUMOR % frequency	Ratios N/T		T/N
Bladder	0.0156	0.0000	undef	0.0000	
Breast	0.0013	0.0000	undef	0.0000	
Small intestine	0.0000	0.0000	undef	undef	
Ovary	0.0000	0.0000	undef	undef	
Endocrine tissue	0.0000	0.0000	undef	undef	
Gastrointestinal	0.0000	0.0000	undef	undef	
Brain	0.0000	0.0021	0.0000	undef	
Hematopoietic	0.0000	0.0000	undef	undef	
Skin	0.0000	0.0000	undef	undef	
Hepatic	0.0000	0.0000	undef	undef	
Heart	0.0021	0.0137	0.1542	6.4853	
Testicles	0.0000	0.0000	undef	undef	
Lung	0.0010	0.0000	undef	0.0000	
Stomach-esophagus	0.0000	0.0000	undef	undef	
Muscle-skeleton	0.0000	0.0000	undef	undef	
Kidney	0.0027	0.0068	0.3965	2.5219	
Pancreas	0.0000	0.0000	undef	undef	
Penis	0.0030	0.0000	undef	0.0000	
Prostate	0.0000	0.0021	0.0000	undef	
Uterus-endometrium	0.0000	0.0000	undef	undef	
Uterus-myometrium	0.0000	0.0000	undef	undef	
Uterus-general	0.0000	0.0000	undef	undef	
Breast hyperplasia	0.0032				
Prostate hyperplasia	0.0000				
Seminal vesicle	0.0118				
Sensory organs	0.0043				
White blood cells	0.0000				
Cervix					

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0017
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0000	Hematopoietic	0.0114
Lung	0.0000	Skin-muscle	0.0063
Suprarenal gland	0.0000	Testicles	0.0154
Kidney	0.0000	Lung	0.0082
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

Electronic Northern for SEQ. ID NO.: 113

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0312	0.0026	12.2035	0.0819
Breast	0.0102	0.0019	5.4442	0.1837
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0060	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0050	0.0000	undef
Gastrointestinal	0.0019	0.0000	undef	0.0000
Brain	0.0037	0.0031	1.1999	0.8334
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0021	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0042	0.0020	2.0321	0.4921
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0180	0.0952	10.5060
Kidney	0.0054	0.0068	0.7930	1.2610
Pancreas	0.0017	0.0055	0.2991	3.3428
Penis	0.0030	0.0000	undef	0.0000
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0102	0.0000	undef	0.0000
Uterus-general	0.0032			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0706			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

		FETUS	STANDARDIZED/SUBTRACTED
		% frequency	LIBRARIES
			% frequency
Development	0.0000	Breast	0.0136
Gastrointestinal	0.0167	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0203
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0140
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0062	Lung	0.0000
Placenta	0.0667	Nerves	0.0000
Prostate	0.0249	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

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 55673540-677664
 55673540-677664

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N

FETUS	STANDARDIZED/SUBTRACTED
% frequency	LIBRARIES
	% frequency

Development	0.0000	Breast	0.0068
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0051
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0006
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0195	0.0026	7.6272	0.1311
Breast	0.0038	0.0019	2.0416	0.4898
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0120	0.0052	2.3025	0.4343
Endocrine tissue	0.0068	0.0000	undef	0.0000
Gastrointestinal	0.0038	0.0000	undef	0.0000
Brain	0.0007	0.0051	0.1440	6.9448
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0129	0.0000	undef
Heart	0.0042	0.0137	0.3084	3.2426
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0034	0.0000	undef	0.0000
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0066	0.0276	0.2393	4.1785
Penis	0.0000	0.0267	0.0000	undef
Prostate	0.0022	0.0000	undef	0.0000
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0076	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0089			
Seminal vesicle	0.0178			
Sensory organs	0.0000			
Sensory organs	0.0035			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0139	Breast	0.0000
Gastrointestinal	0.0028	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0017
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0057
Lung	0.0036	Skin-muscle	0.0130
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0062	Lung	0.0020
Placenta	0.0121	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0083
		Uterus_n	

Electronic Northern for SEQ. ID NO.: 116

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0624	0.0204	3.0509	0.3278
Breast	0.0102	0.0000	undef	0.0000
Small intestine	0.0368	0.0165	2.2244	0.4496
Ovary	0.0120	0.0026	4.6050	0.2172
Endocrine tissue	0.0000	0.0050	0.0000	undef
Gastrointestinal	0.0556	0.0000	undef	0.0000
Brain	0.0030	0.0041	0.7200	1.3890
Hematopoietic	0.0053	0.0000	undef	0.0000
Skin	0.0110	0.0000	undef	0.0000
Hepatic	0.0190	0.0065	2.9412	0.3400
Heart	0.0042	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0031	0.0000	undef	0.0000
Stomach-esophagus	0.0290	0.0230	1.2605	0.7933
Muscle-skeleton	0.0103	0.0000	undef	0.0000
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0033	0.0110	0.2991	3.3428
Penis	0.1258	0.0000	undef	0.0000
Prostate	0.0479	0.0319	1.5013	0.6661
Uterus-endometrium	0.0338	0.0000	undef	0.0000
Uterus-myometrium	0.1067	0.0272	3.9279	0.2546
Uterus-general	0.0509	0.0000	undef	0.0000
Breast hyperplasia	0.0128			
Prostate hyperplasia	0.0476			
Seminal vesicle	0.0267			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix	0.0213			

FETUS % frequency	STANDARDIZED/SUBTRACTED LIBRARIES % frequency
Development	Breast 0.0204
Gastrointestinal 0.0000	Ovary_n 0.1595
Brain 0.0167	Ovary_t 0.0000
Hematopoietic 0.0000	Endocrine tissue 0.0000
Skin 0.0118	Fetal 0.0082
Hepatic 0.0000	Gastrointestinal 0.0610
Heart-blood vessels 0.0071	Hematopoietic 0.0000
Lung 0.0000	Skin-muscle 0.0032
Suprarenal gland 0.0000	Testicles 0.0000
Kidney 0.0000	Lung 0.0000
Placenta 0.0000	Nerves 0.0060
Prostate 0.0499	Prostate 0.0342
Sensory organs 0.0000	Sensory Organs 0.0000
	Uterus_n 0.0541

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Electronic Northern for SEQ. ID NO.: 117

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0019	0.0000	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0000	0.0000	undef	undef
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000			
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0235			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

		FETUS	STANDARDIZED/SUBTRACTED
		% frequency	LIBRARIES
			% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0072	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

"DEFINITION" 03/03/93

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0026	0.0038	0.6805	1.4694
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0030	0.0026	1.1513	0.8686
Endocrine tissue	0.0068	0.0150	0.4528	2.2083
Gastrointestinal	0.0000	0.0000	undef	undef
Brain	0.0007	0.0051	0.1440	6.9448
Hematopoietic	0.0027	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0065	0.0000	undef
Heart	0.0064	0.0137	0.4626	2.1618
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0010	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0017	0.0000	undef	0.0000
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0110	0.0000	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0044	0.0064	0.6824	1.4654
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0152	0.0063	2.2445	0.4455
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0089			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0026			
White blood cells	0.0000			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.1595
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0006
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0114
Lung	0.0000	Skin-muscle	0.0065
Suprarenal gland	0.0000	Testicles	0.0154
Kidney	0.0000	Lung	0.0000
Placenta	0.0061	Nerves	0.0020
Prostate	0.0000	Prostate	0.0068
Sensory organs	0.0000	Sensory Organs	0.0077
		Uterus_n	0.0000

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0819	0.0383	2.1356	0.4682
Breast	0.0473	0.0320	1.4811	0.6752
Small intestine	0.0460	0.0331	1.3903	0.7193
Ovary	0.0539	0.0442	1.2190	0.8204
Endocrine tissue	0.0494	0.0652	0.7576	1.3199
Gastrointestinal	0.0805	0.0139	5.7984	0.1725
Brain	0.0451	0.0390	1.1557	0.8653
Hematopoietic	0.0374	0.0379	0.9881	1.0121
Skin	0.0367	0.0000	undef	0.0000
Hepatic	0.0190	0.0323	0.5882	1.7000
Heart	0.0382	0.0825	0.4626	2.1618
Testicles	0.0173	0.0117	1.4759	0.6775
Lung	0.0384	0.0184	2.0886	0.4788
Stomach-esophagus	0.0580	0.0537	1.0805	0.9255
Muscle-skeleton	0.0514	0.0240	2.1416	0.4669
Kidney	0.0489	0.0479	1.0196	0.9808
Pancreas	0.0330	0.0663	0.4986	2.0057
Penis	0.0359	0.0000	undef	0.0000
Prostate	0.0610	0.0617	0.9883	1.0118
Uterus-endometrium	0.2838	0.0000	undef	0.0000
Uterus-myometrium	0.0305	0.0000	undef	0.0000
Uterus-general	0.0509	0.0000	undef	0.0000
Breast hyperplasia	0.2206			
Prostate hyperplasia	0.0773			
Seminal vesicle	0.0089			
Sensory organs	0.0353			
Sensory organs	0.0737			
White blood cells	0.0319			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0278	Breast	0.0340
Gastrointestinal	0.0361	Ovary_n	0.1595
Brain	0.0125	Ovary_t	0.0101
Hematopoietic	0.0157	Endocrine tissue	0.0490
Skin	0.0000	Fetal	0.0233
Hepatic	0.0260	Gastrointestinal	0.0488
Heart-blood vessels	0.0818	Hematopoietic	0.0285
Lung	0.0325	Skin-muscle	0.0227
Suprarenal gland	0.0000	Testicles	0.0154
Kidney	0.0432	Lung	0.0164
Placenta	0.0303	Nerves	0.0261
Prostate	0.0000	Prostate	0.1163
Sensory organs	0.0126	Sensory Organs	0.0929
		Uterus n	0.0416

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0195	0.0000	undef	0.0000
Breast	0.0026	0.0038	0.6805	1.4694
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0017	0.0025	0.6792	1.4722
Gastrointestinal	0.0038	0.0000	undef	0.0000
Brain	0.0052	0.0041	1.2599	0.7937
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0020	0.0000	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0034	0.0000	undef	0.0000
Kidney	0.0027	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0022	0.0000	undef	0.0000
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0000	undef	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0026			
White blood cells	0.0106			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	% frequency
Development	0.0000	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0006
Hepatic	0.0000	Gastrointestinal	0.0000
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0062	Lung	0.0000
Placenta	0.0000	Nerves	0.0070
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	0.0000

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	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0273	0.0051	5.3391	0.1873
Breast	0.0000	0.0000	undef	undef
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0025	0.0000	undef
Gastrointestinal	0.0038	0.0000	undef	0.0000
Brain	0.0059	0.0041	1.4399	0.6945
Hematopoietic	0.0013	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0048	0.0000	undef	0.0000
Heart	0.0032	0.0000	undef	0.0000
Testicles	0.0000	0.0117	0.0000	undef
Lung	0.0052	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0077	0.0000	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0017	0.0000	undef	0.0000
Penis	0.0150	0.0000	undef	0.0000
Prostate	0.0109	0.0085	1.2795	0.7815
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0076	0.0000	undef	0.0000
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0000			
Prostate hyperplasia	0.0089			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

Development	0.0000
Gastrointestinal	0.0028
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0036
Lung	0.0036
Suprarenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Breast	0.0136
Ovary_n	0.1595
Ovary_t	0.0051
Endocrine tissue	0.0245
Fetal	0.0035
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0032
Testicles	0.0077
Lung	0.0000
Nerves	0.0030
Prostate	0.0068
Sensory Organs	0.0000
Uterus_n	0.0167

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

	NORMAL	TUMOR	Ratios		T/N
	% frequency	% frequency	N/T		
Bladder	0.0351	0.0077	4.5763	0.2185	
Breast	0.0077	0.0038	2.0416	0.4898	
Small intestine	0.0184	0.0000	undef	0.0000	
Ovary	0.0000	0.0000	undef	undef	
Endocrine tissue	0.0017	0.0000	undef	0.0000	
Gastrointestinal	0.0115	0.0093	1.2425	0.8048	
Brain	0.0030	0.0021	1.4399	0.6945	
Hematopoietic	0.0013	0.0000	undef	0.0000	
Skin	0.0073	0.0000	undef	0.0000	
Hepatic	0.0095	0.0000	undef	0.0000	
Heart	0.0233	0.0000	undef	0.0000	
Testicles	0.0058	0.0000	undef	0.0000	
Lung	0.0021	0.0000	undef	0.0000	
Stomach-esophagus	0.0000	0.0077	0.0000	undef	
Muscle-skeleton	0.0103	0.0000	undef	0.0000	
Kidney	0.0054	0.0000	undef	0.0000	
Pancreas	0.0000	0.0055	0.0000	undef	
Penis	0.0599	0.0000	undef	0.0000	
Prostate	0.0131	0.0149	0.8774	1.1397	
Uterus-endometrium	0.0068	0.0000	undef	0.0000	
Uterus-myometrium	0.0152	0.0340	0.4489	2.2276	
Uterus-general	0.0407	0.0000	undef	0.0000	
Breast hyperplasia	0.0064				
Prostate hyperplasia	0.0059				
Seminal vesicle	0.0178				
Sensory organs	0.0118				
Sensory organs	0.0000				
White blood cells	0.0000				
Cervix					

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0278	Breast	0.0136
Gastrointestinal	0.0139	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0152
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0052
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0391	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0032
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0000	Lung	0.0000
Placenta	0.0061	Nerves	0.0060
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0077
		Uterus_n	0.0083

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0390	0.0051	7.6272	0.1311
Breast	0.0064	0.0056	1.1342	0.8817
Small intestine	0.0184	0.0000	undef	0.0000
Ovary	0.0060	0.0000	undef	0.0000
Endocrine tissue	0.0017	0.0050	0.3396	2.9444
Gastrointestinal	0.0057	0.0000	undef	0.0000
Brain	0.0007	0.0021	0.3600	2.7779
Hematopoietic	0.0040	0.0000	undef	0.0000
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0095	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0021	0.0020	1.0161	0.9842
Stomach-esophagus	0.0193	0.0077	2.5211	0.3967
Muscle-skeleton	0.0154	0.0060	2.5700	0.3891
Kidney	0.0054	0.0000	undef	0.0000
Pancreas	0.0000	0.0055	0.0000	undef
Penis	0.0210	0.0000	undef	0.0000
Prostate	0.0044	0.0000	undef	0.0000
Uterus-endometrium	0.0203	0.0000	undef	0.0000
Uterus-myometrium	0.0152	0.0272	0.5611	1.7821
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0128			
Prostate hyperplasia	0.0059			
Seminal vesicle	0.0000			
Sensory organs	0.0000			
Sensory organs	0.0017			
White blood cells	0.0000			
Cervix				

	FETUS	STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	
		% frequency	
Development	0.0139	Breast	0.0000
Gastrointestinal	0.0083	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0000	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0012
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0142	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0065
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0082
Placenta	0.0000	Nerves	0.0000
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	0.0083

Electronic Northern for SEQ. ID NO.: 124

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0195	0.0026	7.6272	0.1311
Breast	0.0013	0.0019	0.6805	1.4694
Small intestine	0.0031	0.0000	undef	0.0000
Ovary	0.0000	0.0026	0.0000	undef
Endocrine tissue	0.0017	0.0050	0.3396	2.9444
Gastrointestinal	0.0057	0.0000	undef	0.0000
Brain	0.0022	0.0021	1.0799	0.9260
Hematopoietic	0.0000	0.0379	0.0000	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0011	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0010	0.0000	undef	0.0000
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0060	0.0000	undef
Kidney	0.0109	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Penis	0.0000	0.0000	undef	undef
Prostate	0.0087	0.0043	2.0473	0.4885
Uterus-endometrium	0.0000	0.0000	undef	undef
Uterus-myometrium	0.0000	0.0068	0.0000	undef
Uterus-general	0.0000	0.0000	undef	undef
Breast hyperplasia	0.0059			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0009			
White blood cells	0.0000			
Cervix				

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000	Breast	
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0039	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0260	Gastrointestinal	0.0006
Heart-blood vessels	0.0000	Hematopoietic	0.0000
Lung	0.0000	Skin-muscle	0.0000
Suprarenal gland	0.0507	Testicles	0.0162
Kidney	0.0000	Lung	0.0000
Placenta	0.0000	Nerves	0.0040
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus_n	0.0000

Electronic Northern for SEQ. ID NO.: 125

	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0390	0.0051	7.6272	0.1311
Breast	0.0153	0.0150	1.0208	0.9796
Small intestine	0.0245	0.0000	undef	0.0000
Ovary	0.0210	0.0078	2.6863	0.3723
Endocrine tissue	0.0170	0.0125	1.3585	0.7361
Gastrointestinal	0.0153	0.0000	undef	0.0000
Brain	0.0126	0.0133	0.9415	1.0622
Hematopoietic	0.0067	0.0000	undef	0.0000
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0000	0.0129	0.0000	undef
Heart	0.0127	0.0000	undef	0.0000
Testicles	0.0115	0.0117	0.9839	1.0163
Lung	0.0114	0.0143	0.7983	1.2526
Stomach-esophagus	0.0097	0.0307	0.3151	3.1733
Muscle-skeleton	0.0034	0.0060	0.5711	1.7510
Kidney	0.0326	0.0274	1.1896	0.8406
Pancreas	0.0033	0.0166	0.1994	5.0142
Penis	0.0629	0.0000	undef	0.0000
Prostate	0.0109	0.0170	0.6398	1.5631
Uterus-endometrium	0.0203	0.0000	undef	0.0000
Uterus-myometrium	0.0305	0.0068	4.4891	0.2228
Uterus-general	0.0255	0.0000	undef	0.0000
Breast hyperplasia	0.0256			
Prostate hyperplasia	0.0208			
Seminal vesicle	0.0178			
Sensory organs	0.0000			
White blood cells	0.0191			
Cervix	0.0106			

FETUS
% frequency

STANDARDIZED/SUBTRACTED
LIBRARIES
% frequency

Development	0.0000
Gastrointestinal	0.0111
Brain	0.0063
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0036
Lung	0.0072
Suprarenal gland	0.0254
Kidney	0.0062
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0126

Breast	
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0051
Fetal	0.0000
Gastrointestinal	0.0076
Hematopoietic	0.0000
Skin-muscle	0.0057
Testicles	0.0162
Lung	0.0077
Nerves	0.0082
Prostate	0.0120
Sensory Organs	0.0205
Uterus_n	0.0000
	0.0749

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	NORMAL	TUMOR	Ratios	
	% frequency	% frequency	N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0051	0.0056	0.9074	1.1021
Small intestine	0.0184	0.0000	undef	0.0000
Ovary	0.0060	0.0104	0.5756	1.7372
Endocrine tissue	0.0085	0.0075	1.1321	0.8833
Gastrointestinal	0.0096	0.0000	undef	0.0000
Brain	0.0059	0.0154	0.3840	2.6043
Hematopoietic	0.0080	0.0000	undef	0.0000
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0095	0.0129	0.7353	1.3600
Heart	0.0201	0.0137	1.4649	0.6827
Testicles	0.0058	0.0000	undef	0.0000
Lung	0.0145	0.0164	0.8891	1.1248
Stomach-esophagus	0.0000	0.0230	0.0000	undef
Muscle-skeleton	0.0017	0.0300	0.0571	17.5100
Kidney	0.0217	0.0068	3.1722	0.3152
Pancreas	0.0050	0.0000	undef	0.0000
Penis	0.0210	0.0000	undef	0.0000
Prostate	0.0065	0.0021	3.0709	0.3256
Uterus-endometrium	0.0135	0.0000	undef	0.0000
Uterus-myometrium	0.0457	0.0204	2.2445	0.4455
Uterus-general	0.0153	0.0000	undef	0.0000
Breast hyperplasia	0.0096			
Prostate hyperplasia	0.0000			
Seminal vesicle	0.0470			
Sensory organs	0.0121			
White blood cells	0.0213			
Cervix				

FETUS		STANDARDIZED/SUBTRACTED	
	% frequency		% frequency
Development	0.0139	Breast	0.0068
Gastrointestinal	0.0056	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0101
Hematopoietic	0.0157	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0210
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0213	Hematopoietic	0.0057
Lung	0.0217	Skin-muscle	0.0259
Suprarenal gland	0.0254	Testicles	0.0000
Kidney	0.0185	Lung	0.0000
Placenta	0.0121	Nerves	0.0020
Prostate	0.0000	Prostate	0.0000
Sensory organs	0.0000	Sensory Organs	0.0387
		Uterus n	0.0000

	NORMAL % frequency	TUMOR % frequency	Ratios N/T	T/N
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0090	0.0019	4.7637	0.2099
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0240	0.0000	undef	0.0000
Endocrine tissue	0.0017	0.0025	0.6792	1.4722
Gastrointestinal	0.0000	0.0046	0.0000	undef
Brain	0.0037	0.0010	3.5998	0.2778
Hematopoietic	0.0000	0.0000	undef	undef
Skin	0.0037	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0074	0.0000	undef	0.0000
Testicles	0.0058	0.0234	0.2460	4.0652
Lung	0.0010	0.0061	0.1693	5.9051
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0060	0.0000	undef
Muscle-skeleton	0.0027	0.0000	undef	0.0000
Kidney	0.0017	0.0110	0.1496	6.6857
Pancreas	0.0090	0.0000	undef	0.0000
Penis	0.0044	0.0064	0.6824	1.4654
Prostate	0.0000	0.0000	undef	undef
Uterus-endometrium	0.0229	0.0136	1.6834	0.5940
Uterus-myometrium	0.0102	0.0000	undef	0.0000
Uterus-general	0.0032			
Breast hyperplasia	0.0119			
Prostate hyperplasia	0.0267			
Seminal vesicle	0.0000			
Sensory organs	0.0017			
White blood cells	0.0000			
Cervix				

	FETUS	STANDARDIZED/SUBTRACTED	
	% frequency	LIBRARIES	
		% frequency	
Development	0.0139	Breast	0.0000
Gastrointestinal	0.0000	Ovary_n	0.0000
Brain	0.0000	Ovary_t	0.0000
Hematopoietic	0.0079	Endocrine tissue	0.0000
Skin	0.0000	Fetal	0.0000
Hepatic	0.0000	Gastrointestinal	0.0122
Heart-blood vessels	0.0071	Hematopoietic	0.0000
Lung	0.0036	Skin-muscle	0.0000
Suprarenal gland	0.0000	Testicles	0.0000
Kidney	0.0000	Lung	0.0082
Placenta	0.0000	Nerves	0.0010
Prostate	0.0000	Prostate	0.0205
Sensory organs	0.0000	Sensory Organs	0.0000
		Uterus n	0.0042

Electronic Northern for Seq. ID: 391

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma	0.0025	0.0000	undef 0.0000
Bladder	0.0312	0.0000	undef 0.0000
Breast	0.0079	0.0056	1.4090 0.7097
Large intestine	0.0077	0.0000	undef 0.0000
Small intestine	0.0027	0.0107	0.2577 3.8812
Ovary	0.0030	0.0072	0.4148 2.4109
Endocrine tissue	0.0048	0.0089	0.5432 1.8409
Brain	0.0029	0.0080	0.3627 2.7574
Skin	0.0000	0.0000	undef undef
Hepatic	0.0093	0.0000	undef 0.0000
Heart	0.0020	0.0000	undef 0.0000
Testicles	0.0000	0.0118	0.0000 undef
Lung	0.0010	0.0037	0.2631 3.8007
Stomach-esophagus	0.0217	0.0000	undef 0.0000
Muscle-skeleton	0.0034	0.0000	undef 0.0000
Kidney	0.0045	0.0048	0.9285 1.0770
Pancreas	0.0017	0.0055	0.2992 3.3427
Prostate	0.0066	0.0039	1.6882 0.5923
T lymphoma	0.0025	0.0149	0.1691 5.9152
Uterus	0.0030	0.0046	0.6426 1.5563
White blood cells	0.0021	0.0000	undef 0.0000
Hematopoietic	0.0000		
Penis	0.0134		
Seminal vesicle	0.0070		
Sensory organs	0.0000		

FETUS
% freq.

Development	0.0278
Gastrointestinal	0.0000
Brain	0.0188
Hematopoietic	0.0079
Skin	0.0000
Hepatic	0.0260
Heart-blood vessels	0.0071
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0126

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	
Breast t	0.0000
Large intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0245
Gastrointestinal	0.0064
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles_n	0.0065
Testicles_t	0.0167
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0000
Kidney t	0.0060
Ovary uterus	0.0000
Prostate n	0.0090
Sensory organs	0.0182
White blood cells	0.0000
	0.0000

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Electronic Northern for Seq. ID: 392

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N	
B lymphoma	0.0000	0.0000	undef	undef
Bladder	0.0156	0.0000	undef	0.0000
Breast	0.0000	0.0000	undef	undef
Large intestine	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0059	0.0000	undef	0.0000
Endocrine tissue	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0010	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0000	undef	undef
T lymphoma	0.0000	0.0000	undef	undef
Uterus	0.0000	0.0000	undef	undef
White blood cells	0.0000	0.0000	undef	undef
Hematopoietic	0.0000			
Penis	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			

FETUS
% freq.

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0000
Breast t	0.0000
Large intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0000
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles_n	0.0000
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0010
Kidney t	0.0000
Ovary uterus	0.0023
Prostate n	0.0000
Sensory organs	0.0000
White blood cells	0.0000

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	Seq. ID: 393		RATIOS	
	NORMAL % freq.	TUMOR % freq.	N/T	T/N
B lymphoma				
Bladder	0.0075	0.0000	undef	0.0000
Breast	0.0195	0.0000	undef	0.0000
Large intestine	0.0009	0.0000	undef	0.0000
Small intestine	0.0057	0.0000	undef	0.0000
Ovary	0.0000	0.0000	undef	undef
Endocrine tissue	0.0000	0.0000	undef	undef
Brain	0.0000	0.0000	undef	undef
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0046	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0000	0.0000	undef	undef
Stomach-esophagus	0.0010	0.0000	undef	0.0000
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0034	0.0000	undef	0.0000
Pancreas	0.0000	0.0000	undef	undef
Prostate	0.0000	0.0055	0.0000	undef
T lymphoma	0.0000	0.0000	undef	undef
Uterus	0.0000	0.0000	undef	undef
White blood cells	0.0000	0.0000	undef	undef
Hematopoietic	0.0000	0.0000	undef	undef
Penis	0.0027			
Seminal vesicle	0.0000			
Sensory organs	0.0000			

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0063
Hematopoietic	0.0039
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0061
Prostate	0.0000
Sensory organs	0.0000

Breast	0.0000
Breast_t	0.0000
Large Intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0029
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles_n	0.0042
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0020
Kidney_t	0.0000
Ovary uterus	0.0045
Prostate_n	0.0000
Sensory organs	0.0000
White blood cells	0.0000

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma	0.0000	0.0136	0.0000 undef
Bladder	0.0156	0.0023	6.6380 0.1506
Breast	0.0035	0.0042	0.8349 1.1977
Large intestine	0.0038	0.0199	0.1922 5.2023
Small intestine	0.0000	0.0000	undef undef
Ovary	0.0059	0.0024	2.4887 0.4018
Endocrine tissue	0.0080	0.0000	undef 0.0000
Brain	0.0023	0.0040	0.5803 1.7234
Skin	0.0073	0.0000	undef 0.0000
Hepatic	0.0000	0.0000	undef undef
Heart	0.0030	0.0000	undef 0.0000
Testicles	0.0000	0.0059	0.0000 undef
Lung	0.0019	0.0055	0.3508 2.8506
Stomach-esophagus	0.0072	0.0000	undef 0.0000
Muscle-skeleton	0.0017	0.0000	undef 0.0000
Kidney	0.0045	0.0048	0.9285 1.0770
Pancreas	0.0033	0.0110	0.2992 3.3427
Prostate	0.0057	0.0026	2.1706 0.4607
T lymphoma	0.0051	0.0149	0.3381 2.9576
Uterus	0.0015	0.0000	undef 0.0000
White blood cells	0.0021	0.0304	0.0676 14.7861
Hematopoietic	0.0013		
Penis	0.0054		
Seminal vesicle	0.0000		
Sensory organs	0.0118		

- Development
- Gastrointestinal
- Brain
- Hematopoietic
- Skin
- Hepatic
- Heart-blood vessels
- Lung
- Adrenal gland
- Kidney
- Placenta
- Prostate
- Sensory organs

Breast	
Breast t	0.0136
Large Intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0051
Fetal	0.0000
Gastrointestinal	0.0017
Hematopoietic	0.0122
Skin-muscle	0.0000
Testicles_n	0.0000
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0293
Nerves	0.0000
Kidney t	0.0040
Ovary uterus	0.0000
Prostate n	0.0068
Sensory organs	0.0000
White blood cells	0.0000

Electronic Northern for Seq. ID: 395

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N	
B lymphoma	0.0000	0.0000	undef	undef
Bladder	0.0156	0.0047	3.3192	0.3013
Breast	0.0062	0.0183	0.3372	2.9657
Large intestine	0.0019	0.0114	0.1682	5.9454
Small intestine	0.0000	0.0107	0.0000	undef
Ovary	0.0030	0.0072	0.4148	2.4110
Endocrine tissue	0.0000	0.0000	undef	undef
Brain	0.0006	0.0010	0.6045	1.6542
Skin	0.0073	0.0000	undef	0.0000
Hepatic	0.0000	0.0190	0.0000	undef
Heart	0.0020	0.0962	0.0211	47.4018
Testicles	0.0000	0.0000	undef	undef
Lung	0.0039	0.0111	0.3508	2.8506
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0171	0.0037	4.6389	0.2156
Kidney	0.0045	0.0000	undef	0.0000
Pancreas	0.0000	0.0110	0.0000	undef
Prostate	0.0000	0.0052	0.0000	undef
T lymphoma	0.0025	0.0000	undef	0.0000
Uterus	0.0015	0.0000	undef	0.0000
White blood cells	0.0000	0.0000	undef	undef
Hematopoietic	0.0013			
Penis	0.0054			
Seminal vesicle	0.0000			
Sensory organs	0.0000			

FETUS
% freq.

Development	0.0278
Gastrointestinal	0.0056
Brain	0.0063
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0071
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0000
Breast t	0.0000
Large Intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0152
Endocrine tissue	0.0000
Fetal	0.0006
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles_n	0.0000
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0000
Kidney t	0.0000
Ovary Uterus	0.0113
Prostate n	0.0000
Sensory Organs	0.0000
White blood cells	0.0000

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Electronic Northern for Seq. ID: 396

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma			
Bladder	0.0000	0.0136	0.0000 undef
Breast	0.0429	0.0000	undef 0.0000
Large intestine	0.0000	0.0042	0.0000 undef
Small intestine	0.0038	0.0000	undef 0.0000
Ovary	0.0000	0.0000	undef undef
Endocrine tissue	0.0000	0.0000	undef undef
Brain	0.0032	0.0000	undef 0.0000
Skin	0.0012	0.0010	1.1605 0.8617
Hepatic	0.0037	0.0000	undef 0.0000
Heart	0.0046	0.0000	undef 0.0000
Testicles	0.0061	0.0000	undef 0.0000
Lung	0.0000	0.0000	undef undef
Stomach-esophagus	0.0000	0.0055	0.0000 undef
Muscle-skeleton	0.0000	0.0064	0.0000 undef
Kidney	0.0017	0.0037	0.4639 2.1557
Pancreas	0.0045	0.0000	undef 0.0000
Prostate	0.0017	0.0000	undef 0.0000
T lymphoma	0.0009	0.0026	0.3618 2.7643
Uterus	0.0000	0.0000	undef undef
White blood cells	0.0030	0.0000	undef 0.0000
Hematopoietic	0.0007	0.0000	undef 0.0000
Penis	0.0000		
Seminal vesicle	0.0054		
Sensory organs	0.0000		

FETUS
% freq.

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0036
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0249
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	
Breast_t	0.0000
Large intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0000
Gastrointestinal	0.0075
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles_n	0.0000
Testicles_t	0.0084
Lungs_n	0.0000
Lungs_t	0.0098
Nerves	0.0000
Kidney_t	0.0070
Ovary uterus	0.0000
Prostate_n	0.0000
Sensory organs	0.0000
White blood cells	0.0077
	0.0000

03673840 030674

Electronic Northern for Seq. ID: 397

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N	
B lymphoma	0.0025	0.0000	undef	0.0000
Bladder	0.0117	0.0000	undef	0.0000
Breast	0.0009	0.0000	undef	0.0000
Large intestine	0.0000	0.0000	undef	undef
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0030	0.0000	undef	0.0000
Endocrine tissue	0.0048	0.0000	undef	0.0000
Brain	0.0006	0.0000	undef	0.0000
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0063	0.0000	undef
Heart	0.0010	0.0000	undef	0.0000
Testicles	0.0000	0.0000	undef	undef
Lung	0.0019	0.0018	1.0524	0.9502
Stomach-esophagus	0.0000	0.0000	undef	undef
Muscle-skeleton	0.0000	0.0000	undef	undef
Kidney	0.0000	0.0000	undef	undef
Pancreas	0.0000	0.0000	undef	undef
Prostate	0.0009	0.0026	0.3618	2.7643
T lymphoma	0.0000	0.0000	undef	undef
Uterus	0.0000	0.0000	undef	undef
White blood cells	0.0007	0.0000	undef	0.0000
Hematopoietic	0.0000			
Penis	0.0000			
Seminal vesicle	0.0000			
Sensory organs	0.0000			

FETUS
% freq.

Development	0.0000
Gastrointestinal	0.0028
Brain	0.0000
Hematopoietic	0.0039
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0000
Adrenal gland	0.0062
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0068
Breast t	0.0000
Large Intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0051
Fetal	0.0000
Gastrointestinal	0.0070
Hematopoietic	0.0122
Skin-muscle	0.0000
Testicles_n	0.0000
Testicles_t	0.0293
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0000
Kidney t	0.0000
Ovary Uterus	0.0135
Prostate_n	0.0061
Sensory organs	0.0000
White blood cells	0.0000

Electronic Northern for Seq. ID: 398

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma	0.0025	0.0000	undef 0.0000
Bladder	0.0156	0.0023	6.6384 0.1506
Breast	0.0053	0.0042	1.2524 0.7985
Large intestine	0.0000	0.0028	0.0000 undef
Small intestine	0.0027	0.0000	undef 0.0000
Ovary	0.0030	0.0024	1.2443 0.8037
Endocrine tissue	0.0000	0.0057	0.0000 undef
Brain	0.0024	0.0060	0.4030 2.4814
Skin	0.0000	0.0000	undef undef
Hepatic	0.0000	0.0000	undef undef
Heart	0.0030	0.0137	0.2215 4.5145
Testicles	0.0080	0.0000	undef 0.0000
Lung	0.0068	0.0037	1.8417 0.5430
Stomach-esophagus	0.0000	0.0000	undef undef
Muscle-skeleton	0.0034	0.0000	undef 0.0000
Kidney	0.0022	0.0000	undef 0.0000
Pancreas	0.0000	0.0055	0.0000 undef
Prostate	0.0028	0.0026	1.0853 0.9214
T lymphoma	0.0000	0.0000	undef undef
Uterus	0.0000	0.0092	0.0000 undef
White blood cells	0.0082	0.0000	undef 0.0000
Hematopoietic	0.0013		
Penis	0.0054		
Seminal vesicle	0.0070		
Sensory organs	0.0000		

FETUS
% freq.

Development	0.0000
Gastrointestinal	0.0028
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0036
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0068
Breast t	0.0000
Large intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0006
Gastrointestinal	0.0122
Hematopoietic	0.0000
Skin-muscle	0.0065
Testicles_n	0.0000
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0030
Kidney t	0.0000
Ovary uterus	0.0090
Prostate n	0.0000
Sensory organs	0.0000
White blood cells	0.0000

103350 "DDBE" 0350

Electronic Northern for Seq. ID: 399

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma	0.0000	0.0136	0.0000 undef
Bladder	0.0234	0.0047	4.9788 0.2009
Breast	0.0070	0.0098	0.7157 1.3973
Large intestine	0.0057	0.0085	0.6728 1.4864
Small intestine	0.0110	0.0000	undef 0.0000
Ovary	0.0059	0.0000	undef 0.0000
Endocrine tissue	0.0032	0.0038	0.8479 1.1794
Brain	0.0018	0.0020	0.9068 1.1028
Skin	0.0073	0.0000	undef 0.0000
Hepatic	0.0046	0.0190	0.2441 4.0960
Heart	0.0081	0.0000	undef 0.0000
Testicles	0.0040	0.0000	undef 0.0000
Lung	0.0068	0.0018	3.6834 0.2715
Stomach-esophagus	0.0072	0.0064	1.1333 0.8824
Muscle-skeleton	0.0069	0.0000	undef 0.0000
Kidney	0.0067	0.0096	0.6963 1.4362
Pancreas	0.0033	0.0221	0.1496 6.6857
Prostate	0.0094	0.0052	1.8088 0.5529
T lymphoma	0.0000	0.0000	undef undef
Uterus	0.0093	0.0000	undef 0.0000
White blood cells	0.0068	0.0000	undef 0.0000
Hematopoietic	0.0000		
Penis	0.0134		
Seminal vesicle	0.0070		
Sensory organs	0.0118		

FETUS
% freq.

Development	0.0139
Gastrointestinal	0.0111
Brain	0.0000
Hematopoietic	0.0000
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0000
Lung	0.0145
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0408
Breast t	0.0000
Large intestine_t	0.0000
Ovary_n	0.1595
Ovary_t	0.0101
Endocrine tissue	0.0000
Fetal	0.0046
Gastrointestinal	0.0122
Hematopoietic	0.0000
Skin-muscle	0.0130
Testicles_n	0.0125
Testicles_t	0.0000
Lungs_n	0.0098
Lungs_t	0.0000
Nerves	0.0000
Kidney t	0.0000
Ovary uterus	0.0000
Prostate n	0.0068
Sensory organs	0.0000
White blood cells	0.0000

"DDBE" 2350

Electronic Northern for Seq. ID: 400

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma	0.0000	0.0136	0.0000 undef
Bladder	0.0156	0.0000	undef 0.0000
Breast	0.0018	0.0000	undef 0.0000
Large intestine	0.0000	0.0000	undef undef
Small intestine	0.0000	0.0000	undef undef
Ovary	0.0000	0.0000	undef undef
Endocrine tissue	0.0000	0.0000	undef undef
Brain	0.0016	0.0019	0.8479 1.1794
Skin	0.0018	0.0010	1.8135 0.5514
Hepatic	0.0073	0.0000	undef 0.0000
Heart	0.0046	0.0000	undef 0.0000
Testicles	0.0020	0.0000	undef 0.0000
Lung	0.0040	0.0000	undef 0.0000
Stomach-esophagus	0.0000	0.0000	undef undef
Muscle-skeleton	0.0000	0.0000	undef undef
Kidney	0.0000	0.0000	undef undef
Pancreas	0.0000	0.0000	undef undef
Prostate	0.0033	0.0000	undef 0.0000
T lymphoma	0.0047	0.0026	1.8088 0.5529
Uterus	0.0025	0.0000	undef 0.0000
White blood cells	0.0031	0.0000	undef 0.0000
Hematopoietic	0.0000	0.0000	undef undef
Penis	0.0000		
Seminal vesicle	0.0027		
Sensory organs	0.0000		

FETUS
% freq.

Development	0.0000
Gastrointestinal	0.0000
Brain	0.0000
Hematopoietic	0.0039
Skin	0.0000
Hepatic	0.0260
Heart-blood vessels	0.0000
Lung	0.0000
Adrenal gland	0.0000
Kidney	0.0000
Placenta	0.0000
Prostate	0.0000
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0204
Breast t	0.0000
Large intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0110
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0000
Testicles_n	0.0000
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0040
Kidney t	0.0000
Ovary uterus	0.0045
Prostate n	0.0121
Sensory organs	0.0000
White blood cells	0.0000

05673840 033007

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N	
B lymphoma	0.0125	0.0136	0.9198	1.0872
Bladder	0.0390	0.0094	4.1487	0.2410
Breast	0.0198	0.0056	2.8179	0.3549
Large intestine	0.0172	0.0028	6.0551	0.1652
Small intestine	0.0110	0.0000	undef	0.0000
Ovary	0.0178	0.0119	1.4932	0.6697
Endocrine tissue	0.0161	0.0195	0.8231	1.2150
Brain	0.0179	0.0170	1.0581	0.9451
Skin	0.0220	0.0000	undef	0.0000
Hepatic	0.0000	0.0000	undef	undef
Heart	0.0162	0.0275	0.5907	1.6929
Testicles	0.0161	0.0000	undef	0.0000
Lung	0.0175	0.0092	1.8944	0.5279
Stomach-esophagus	0.0000	0.0128	0.0000	undef
Muscle-skeleton	0.0257	0.0037	6.9583	0.1437
Kidney	0.0201	0.0096	2.0891	0.4787
Pancreas	0.0066	0.0276	0.2393	4.1784
Prostate	0.0104	0.0000	undef	0.0000
T lymphoma	0.0051	0.0448	0.1127	8.8727
Uterus	0.0177	0.0276	0.6426	1.5563
White blood cells	0.0116	0.0607	0.1916	5.2186
Hematopoietic	0.0040			
Penis	0.0241			
Seminal vesicle	0.0070			
Sensory organs	0.0353			

- Development
- Gastrointestinal
- Brain
- Hematopoietic
- Skin
- Hepatic
- Heart-blood vessels
- Lung
- Adrenal gland
- Kidney
- Placenta
- Prostate
- Sensory organs

Breast	0.0204
Breast t	0.0000
Large Intestine_t	0.0000
Ovary_n	0.1595
Ovary_t	0.0253
Endocrine tissue	0.0000
Fetal	0.0226
Gastrointestinal	0.0122
Hematopoietic	0.0000
Skin-muscle	0.0324
Testicles_n	0.0167
Testicles_t	0.0000
Lungs_n	0.0000
Lungs_t	0.0000
Nerves	0.0191
Kidney t	0.0000
Ovary uterus	0.0248
Prostate n	0.0061
Sensory organs	0.0077
White blood cells	0.0000

Electronic Northern for Seq. ID: 402

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T T/N
B lymphoma	0.0125	0.0000	undef 0.0000
Bladder	0.0429	0.0141	3.0424 0.3287
Breast	0.0387	0.0084	4.5922 0.2178
Large intestine	0.0038	0.0028	1.3456 0.7432
Small intestine	0.0165	0.0107	1.5459 0.6469
Ovary	0.0237	0.0000	undef 0.0000
Endocrine tissue	0.0177	0.0018	9.9589 0.1004
Brain	0.0041	0.0100	0.4062 2.4620
Skin	0.0514	0.0000	undef 0.0000
Hepatic	0.0000	0.0063	0.0000 undef
Heart	0.0457	0.0137	3.3227 0.3010
Testicles	0.0040	0.0000	undef 0.0000
Lung	0.0467	0.0296	1.5786 0.6335
Stomach-esophagus	0.0145	0.0064	2.2671 0.4411
Muscle-skeleton	0.0171	0.0222	0.7731 1.2934
Kidney	0.0000	0.0000	undef undef
Pancreas	0.0017	0.0000	undef 0.0000
Prostate	0.0075	0.0052	1.4470 0.6911
T lymphoma	0.0051	0.0000	undef 0.0000
Uterus	0.0281	0.0138	2.0348 0.4915
White blood cells	0.0000	0.0000	undef undef
Hematopoietic	0.0160		
Penis	0.0295		
Seminal vesicle	0.0141		
Sensory organs	0.0353		

FETUS
% freq.

Development	0.0418
Gastrointestinal	0.0139
Brain	0.0000
Hematopoietic	0.0039
Skin	0.0000
Hepatic	0.0000
Heart-blood vessels	0.0356
Lung	0.0325
Adrenal gland	0.0000
Kidney	0.0124
Placenta	0.0121
Prostate	0.0249
Sensory organs	0.0000

STANDARDIZED/SUBTRACTED LIBRARIES
% frequency

Breast	0.0476
Breast t	0.0000
Large Intestine_t	0.0000
Ovary_n	0.1595
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0220
Gastrointestinal	0.0122
Hematopoietic	0.0000
Skin-muscle	0.0583
Testicles_n	0.0042
Testicles_t	0.0000
Lungs_n	0.0098
Lungs_t	0.0000
Nerves	0.0090
Kidney t	0.0000
Ovary Uterus	0.0405
Prostate n	0.0061
Sensory organs	0.0000
White blood cells	0.0000

133553 0455 4353

	NORMAL % freq.	TUMOR % freq.	RATIOS N/T	T/N
B lymphoma	0.0000	0.0000	undef	undef
Bladder	0.0351	0.0047	7.4677	0.1339
Breast	0.0070	0.0014	5.0097	0.1996
Large intestine	0.0115	0.0000	undef	0.0000
Small intestine	0.0000	0.0000	undef	undef
Ovary	0.0000	0.0024	0.0000	undef
Endocrine tissue	0.0016	0.0035	0.4527	2.2091
Brain	0.0017	0.0060	0.2901	3.4467
Skin	0.0000	0.0000	undef	undef
Hepatic	0.0000	0.0063	0.0000	undef
Heart	0.0020	0.0137	0.1477	6.7715
Testicles	0.0040	0.0000	undef	0.0000
Lung	0.0039	0.0018	2.1049	0.4751
Stomach-esophagus	0.0145	0.0000	undef	0.0000
Muscle-skeleton	0.0051	0.0000	undef	0.0000
Kidney	0.0112	0.0000	undef	0.0000
Pancreas	0.0017	0.0055	0.2992	3.3427
Prostate	0.0075	0.0026	2.8941	0.3455
T lymphoma	0.0025	0.0000	undef	0.0000
Uterus	0.0059	0.0046	1.2851	0.7781
White blood cells	0.0027	0.0000	undef	0.0000
Hematopoietic	0.0013			
Penis	0.0054			
Seminal vesicle	0.0000			
Sensory organs	0.0000			

- Development
- Gastrointestinal
- Brain
- Hematopoietic
- Skin
- Hepatic
- Heart-blood vessels
- Lung
- Adrenal gland
- Kidney
- Placenta
- Prostate
- Sensory organs

Breast	0.0340
Breast t	0.0000
Large Intestine_t	0.0000
Ovary_n	0.0000
Ovary_t	0.0000
Endocrine tissue	0.0000
Fetal	0.0017
Gastrointestinal	0.0000
Hematopoietic	0.0000
Skin-muscle	0.0065
Testicles_n	0.0000
Testicles_t	0.0000
Lungs_n	0.0098
Lungs_t	0.0000
Nerves	0.0020
Kidney t	0.0000
Ovary uterus	0.0000
Prostate n	0.0061
Sensory organs	0.0000
White blood cells	0.0000

2.2. Fisher Test

In order to decide whether a partial sequence S of a gene occurs significantly more often or less often in a library for normal tissue than in a library for degenerated tissue, Fisher's exact test, a standard statistical process, is carried out (Hays, W. L., (1991) Statistics, Harcourt Brace College Publishers, Fort Worth).

The null hypothesis reads: The two libraries cannot be distinguished with respect to the frequency of sequences homologous to S . If the null hypothesis can be rejected with high enough certainty, the gene belonging to S is accepted as an advantageous candidate for a cancer gene, and in the next step an attempt is made to achieve lengthening of its sequence.

Example 3

Automatic Lengthening of the Partial Sequence

Automatic lengthening of partial sequence S is completed in three steps:

1. Determination of all sequences homologous to S from the total set of available sequences using BLAST
2. Assembling these sequences by means of the standard program GAP4 (Bonfield, J. K.; Smith, K. F. and Staden, R. (1995), Nucleic Acids Research 23 4992-4999) (contig formation).
3. Computation of a consensus sequence C from the assembled sequences.

Consensus sequence C will generally be longer than initial sequence S . Its electronic Northern Blot will accordingly

deviate from that for S. A repeated Fisher test decides whether the alternative hypothesis of deviation from a uniform expression in the two libraries can be maintained. If this is the case, an attempt is made to lengthen C in the same way as S. This iteration is continued with consensus sequences C_i (i: iteration index) obtained in each case until the alternative hypothesis is rejected (if H_0 Exit; truncation criterion I) or until automatic lengthening is no longer possible (while $C_i > C_{i-1}$; truncation criterion II).

In the case of truncation criterion II, with the consensus sequence present after the last iteration, a complete or roughly complete sequence of a gene which can be related to cancer with high statistical certainty is acquired.

Analogously to the above-described examples, it was possible to find from normal bladder tissue the nucleic acid sequences described in Table I.

Furthermore, for the individual nucleic acid sequences, it was possible to determine the peptide sequences (ORF's) that are listed in Table II, in which no peptide can be assigned to a few nucleic acid sequences and more than one peptide can be assigned to some nucleic acid sequences. As already mentioned above, both the determined nucleic acid sequences and the peptide sequences assigned to the nucleic acid sequences are the subject of this invention.

Example 4

Mapping of Nucleic Acid Sequences on the Human Genome

Human genes were mapped using the Stanford G3 Hybrid Panel (Stewart et al., 1997), which is marketed by Research Genetics, Huntsville, Alabama. This panel consists of 83 different genomic DNAs of human-hamster hybrid cell lines and allows resolution of 500 kilobases. The hybrid cell lines were obtained by fusion of irradiated diploid human cells with cells of the Chinese hamster. The retention pattern of the human chromosome fragments is determined by means of gene-specific primers in a polymerase chain reaction and is analyzed using software available from the Stanford RH server (http://www.stanford.edu/RH/rhserver_form2.html). This program determines the STS marker that is nearest to the desired gene. The corresponding cytogenetic band was determined using the "Mapview" program of the Genome Database (GDB), (<http://gdbwww.dkfz-heidelberg.de>).

In addition to mapping of genes on the human chromosome set by various experimental methods, it is possible to determine the location of genes on this by biocomputer methods. To do this, the known program e-PCR was used (Schuler GD (1998) Electronic PCR: Bridging the Gap between Genome Mapping and Genome Sequencing. Trends Biotechnol 16: 456-459, Schuler GD (1997). Sequence Mapping by Electronic PCR. Genome Res. 7: 541-550). The database used here no longer corresponds to the one cited in the literature, but is a further development which includes data from the public database RHdb (<http://www.ebi.ac.uk/RHdb/-index.html>). Analogously to the mapping by the hybrid panels,

the results were evaluated with the above-mentioned software and the software of the Whitehead Institute (<http://carbon.wi.mit.edu:8000/cgi-bin/contig/rhmapper.pl>).

Example 5

Obtaining genomic DNA sequences (BAC clones)

The genomic BAC clones containing the corresponding cDNAs (<http://www.tree.caltech.edu/>; Shizuya, H.; B. Birren, U-J. Kim, V. Mancino, T. Slepak, Y. Tachiiri, M. Simon (1992) Proc. Natl. Acad. Sci., USA 89: 8794-8797) were isolated with the procedure of "down-to-the-well". In this procedure, a library consisting of BAC clones (the library covers roughly 3x the human genome) is moved into a certain raster, so that the DNA of these clones with a specific PCR can be studied. In doing so, "pooling" of the DNA of different BAC clones takes place. Combinatorial analysis makes it possible to determine the clones that contain the desired DNA. By fixing the clones, the address of the clones in the library can be determined. This address together with the name of the library which is being used unequivocally fixes the clones and thus the DNA sequence of these clones.

The following examples explain the successful isolation of the genomic BAC clones without limiting them thereto.

The libraries used were CITB B and CITB C:

Seq. ID No.	Identified BACs		
60	311/K/13	271/E/3	252/P/20
102	458/N/24	349/F/12	

TABLE I

Col. 1 - Sequence ID
Col. 2 - Expression
Col. 3 - Function
Col. 4 - Modules
Col. 5 - Cytogenetic localization
Col. 6 - Nearest marker

T030E0" 078E4952

TABLE I

Sequence ID	Expression	Function
1	Overexpressed in normal bladder tissue	H. sapiens rap1b
2	Overexpressed in normal bladder tissue	Human zinc finger transcription factor hEZF (EZF) homolog
3	Overexpressed in normal bladder tissue	Homo sapiens mRNA for phosphatidic acid phosphatase 2a
4	Overexpressed in normal bladder tissue	H. sapiens mRNA for G protein-coupled receptor Edg-2
6	Overexpressed in normal bladder tissue	Homo sapiens secreted frizzled-related protein
7	Overexpressed in normal bladder tissue	Human monocytic leukemia zinc finger protein (MOZ)
8	Overexpressed in normal bladder tissue	Homo sapiens angiotensin II receptor
6	Overexpressed in normal bladder tissue	Human mRNA for RNA helicase (HRH1)
12	Overexpressed in normal bladder tissue	H. sapiens rhoB
17	Overexpressed in normal bladder tissue	Human skeletal muscle LIM-protein SLIM 1
14	Overexpressed in normal bladder tissue	Homo sapiens 39 kDa protein
17	Overexpressed in normal bladder tissue	H. sapiens dermatopontin mRNA
18	Overexpressed in normal bladder tissue	Homo sapiens phosphoglucomutase-related protein (PGMRP)

20	Overexpressed in normal bladder tissue	Human nucleic acid binding protein CNBP
21	Overexpressed in normal bladder tissue	Unknown
22	Overexpressed in normal bladder tissue	Human small nuclear ribonucleoprotein (U1-70K)
23	Overexpressed in normal bladder tissue	H. sapiens mRNA for telokin homolog
24	Overexpressed in normal bladder tissue	Homologous to pil2 from rats
25	Overexpressed in normal bladder tissue	Unknown
26	Overexpressed in normal bladder tissue	Unknown
27	Overexpressed in normal bladder tissue	Unknown
29	Overexpressed in normal bladder tissue	Homologous to sushi repeat protein
30	Overexpressed in normal bladder tissue	Unknown
31	Overexpressed in normal bladder tissue	Unknown
32	Overexpressed in normal bladder tissue	Unknown
33	Overexpressed in normal bladder tissue	Unknown
34	Overexpressed in normal bladder tissue	Unknown

35	Overexpressed in normal bladder tissue	Caenorhabditis elegans cosmid F09E5
36	Overexpressed in normal bladder tissue	Unknown
37	Overexpressed in normal bladder tissue	Homologous to murine RING zinc finger protein
38	Overexpressed in normal bladder tissue	Rattus norvegicus cytoplasmic dynein intermediate chain 2c
39	Overexpressed in normal bladder tissue	Unknown
40	Overexpressed in normal bladder tissue	Unknown
43	Overexpressed in normal bladder tissue	Gry-rbp
44	Overexpressed in normal bladder tissue	Unknown
46	Overexpressed in normal bladder tissue	Unknown
47	Overexpressed in normal bladder tissue	Unknown
48	Overexpressed in normal bladder tissue	Unknown
50	Overexpressed in normal bladder tissue	Homologous to HU-K5
51	Overexpressed in normal bladder tissue	Unknown
52	Overexpressed in normal bladder tissue	Homologous to O. aries putative G-protein linked receptor (edg-2)

72	Overexpressed in normal bladder tissue	Unknown
73	Overexpressed in normal bladder tissue	Unknown
75	Overexpressed in normal bladder tissue	Human homolog to rat mRNA for V-1 protein
77	Overexpressed in normal bladder tissue	Caenorhabditis elegans cosmid F 13G3
78	Overexpressed in normal bladder tissue	Unknown
79	Overexpressed in normal bladder tissue	Unknown
80	Overexpressed in normal bladder tissue	Human pyruvate dehydrogenase kinase isoform 4
82	Overexpressed in normal bladder tissue	Unknown
83	Overexpressed in normal bladder tissue	Unknown
85	Overexpressed in normal bladder tissue	Unknown
86	Overexpressed in normal bladder tissue	Mouse epithelial zinc-finger protein EZF (Zie)
88	Overexpressed in normal bladder tissue	Unknown
90	Overexpressed in normal bladder tissue	Unknown
92	Overexpressed in normal bladder tissue	Homologous to MyD118

93	Overexpressed in normal bladder tissue	Homologous to p8 protein from rats
94	Overexpressed in normal bladder tissue	Unknown
95	Overexpressed in normal bladder tissue	Unknown
96	Overexpressed in normal bladder tissue	Homologous to murine B-1ND1
97	Overexpressed in normal bladder tissue	Canis familiaris Sec61-complex gamma-subunit
98	Overexpressed in normal bladder tissue	Unknown
99	Overexpressed in normal bladder tissue	Human homolog to X taevis 146 kDa nuclear protein
100	Overexpressed in normal bladder tissue	Unknown
101	Overexpressed in normal bladder tissue	Human dysferlin
102	Overexpressed in normal bladder tissue	Unknown
103	Overexpressed in normal bladder tissue	Unknown
104	Overexpressed in normal bladder tissue	Unknown
105	Overexpressed in normal bladder tissue	Unknown
106	Overexpressed in normal bladder tissue	Unknown

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107	Overexpressed in normal bladder tissue	Unknown
108	Overexpressed in normal bladder tissue	Homologous to APRIL
109	Overexpressed in normal bladder tissue	Homologous to the human p20
110	Overexpressed in normal bladder tissue	Unknown
111	Overexpressed in normal bladder tissue	Unknown
112	Overexpressed in normal bladder tissue	Unknown
113	Overexpressed in normal bladder tissue	Homologous to D. melanogaster furrowed
114	Overexpressed in normal bladder tissue	Homologous to murine BRX protein
115	Overexpressed in normal bladder tissue	Unknown
116	Overexpressed in normal bladder tissue	Unknown
117	Overexpressed in normal bladder tissue	Caenorhabditis elegans cosmid R08D7
118	Overexpressed in normal bladder tissue	Unknown
119	Overexpressed in normal bladder tissue	HSP 86
120	Overexpressed in normal bladder tissue	Homologous to human AKAP95

121	Overexpressed in normal bladder tissue	Sus scrofa mRNA for 17-kDa PKC- potentiated inhibitory protein of PP1
122	Overexpressed in normal bladder tissue	Unknown
123	Overexpressed in normal bladder tissue	Homo sapiens supervillin
124	Overexpressed in normal bladder tissue	Homologous to B. taurus vacuolar ATPase subunit A
125	Overexpressed in normal bladder tissue	SH3 domain binding glutamic acid- rich-like protein
126	Overexpressed in normal bladder tissue	Human homolog to Mus musculus WSB-1
127	Overexpressed in normal bladder tissue	Unknown
391	Lengthening to Seq. ID No: 27	
392	Lengthening to Seq. ID No: 34	
393	Lengthening to Seq. ID No: 50	
394	Lengthening to Seq. ID No: 56	
395	Lengthening to Seq. ID No: 78	
396	Lengthening to Seq. ID No: 82	
397	Lengthening to Seq. ID No: 88	
398	Lengthening to Seq. ID No: 100	
399	Lengthening to Seq. ID No: 101	

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400	Lengthening to Seq. ID No: 102	
401	Lengthening to Seq. ID No: 104	
402	Lengthening to Seq. ID No: 110	
403	Lengthening to Seq. ID No: 111	

[Key to Table I:]

[Column 4: Sequence ID No. 109:] crystallin = crystalline

[Column 6: Sequence ID Nos. 6, 7, 9, 22, 29, 31-34, 39, 43, 46,
48, 50, 51, 56, 58-62, 65, 72, 73, 82, 86, 102,
103, 111, 112, 115, 126:] ... bis ... = ... to ...

"BIBB" 045252

TABELLE I

Sequenz ID	Expression	Funktion	Module	Cytogenetische Lokalisation	Nearest Marker
1	in Blasennormalgewebe überexprimiert	H.sapiens rap1b	ras	6q21-q22.1	D6S304-D6S1639
2	in Blasennormalgewebe überexprimiert	Human zinc finger transcription factor hEZF (EZF) Homolog	ZINC_FINGER_C2H2_2		
3	in Blasennormalgewebe überexprimiert	Homo sapiens mRNA for phosphatidic acid phosphatase 2a			
4	in Blasennormalgewebe überexprimiert	H. sapiens mRNA for G protein-coupled receptor Edg-2	7im_1	9q31.3-q32	D9S1690-D9S279
6	in Blasennormalgewebe überexprimiert	Homo sapiens secreted frizzled-related protein	FZ_DOMAIN; NETRIN_CT; PRO_RICH	8p11.23-p12	SHGC-5722 bis SHGC-5765
7	in Blasennormalgewebe überexprimiert	Human monocytic leukaemia zinc finger protein (MOZ)		8p11.23-p12	D8S2070 bis SHGC-31558
8	in Blasennormalgewebe überexprimiert	Homo Sapiens angiotensin II receptor		22q11.22-q11.23	D6S2136-D4S3274
9	in Blasennormalgewebe überexprimiert	Human mRNA for RNA helicase (HRH1)		6p21.31	SHGC-17229 bis D6S478
12	in Blasennormalgewebe überexprimiert	H.sapiens rhoB		2p23.3	D2S387
13	in Blasennormalgewebe überexprimiert	Human skeletal muscle LIM-protein SLIM1	LIM_DOMAIN_2	Xq25-q27.2	DXS994-DXS1062
14	in Blasennormalgewebe überexprimiert	Homo sapiens 39 kDa protein	PDZ, LIM	4q34.1-q35.2	D4S408-D4S426
17	in Blasennormalgewebe überexprimiert	H.sapiens dermatopontin mRNA		1q23.1-q23.2	D1S445-D1S2750
18	in Blasennormalgewebe überexprimiert	Homo sapiens phosphoglucomutase-related protein (PGMRP)	PGM_PMM	9p11.1-q12	D9S1699
20	in Blasennormalgewebe überexprimiert	Human nucleic acid binding protein CNBP	zf-CCHC	3q13.31-q21.1	D3S1589-D3S1766
21	in Blasennormalgewebe überexprimiert	unbekannt			
22	in Blasennormalgewebe überexprimiert	Human small nuclear ribonucleoprotein (U1-70K)		19q13.31-q13.33	SHGC-36947 bis SHGC-34723
23	in Blasennormalgewebe überexprimiert	H.sapiens mRNA for telokin Homolog			
24	in Blasennormalgewebe überexprimiert	Homolog zu pil2 aus Ratte			

Sequenz ID	Expression	Funktion	Module	Cytogenetische Lokalisation	Nearest Marker
25	in Blasennormalgewebe überexprimiert	unbekannt			
26	in Blasennormalgewebe überexprimiert	unbekannt			
27	in Blasennormalgewebe überexprimiert	unbekannt		5q32-q33.1	D5S470
29	in Blasennormalgewebe überexprimiert	Homolog zu sushi repeat protein	PRO_RICH	3q11.2	SHGC-36351 bis SHGC-14633
30	in Blasennormalgewebe überexprimiert	unbekannt		2q37.3	D2S206-D2S331
31	in Blasennormalgewebe überexprimiert	unbekannt		2q31.1-q31.3	WI-7596 bis D2S326
32	in Blasennormalgewebe überexprimiert	unbekannt		20p13	D20S864 bis SHGC-34269
33	in Blasennormalgewebe überexprimiert	unbekannt		13q12.11-q12.3	SHGC-2665 bis D13S289
34	in Blasennormalgewebe überexprimiert	unbekannt		9q21.31	SHGC-32247 bis SHGC-5528
35	in Blasennormalgewebe überexprimiert	Caenorhabditis elegans cosmid F09E5	UPF0001		
36	in Blasennormalgewebe überexprimiert	unbekannt			
37	in Blasennormalgewebe überexprimiert	Homolog zu murinem RING zinc finger protein	PRO_RICH; ZF_RING	17p13.3	D17S1548
38	in Blasennormalgewebe überexprimiert	Rattus norvegicus cytoplasmic dynein intermediate chain 2c	WD40_REGION	10q11.21	D10S604-D10S220
39	in Blasennormalgewebe überexprimiert	unbekannt		13q33.3	SHGC-9496 bis D13S1223
40	in Blasennormalgewebe überexprimiert	unbekannt			
43	in Blasennormalgewebe überexprimiert	Gry-rbp	RBD	20p13	D20S816 bis SHGC-33687
44	in Blasennormalgewebe überexprimiert	unbekannt			
46	in Blasennormalgewebe überexprimiert	unbekannt		2q21.3-q22.1	SHGC-35092 bis SHGC-32856
47	in Blasennormalgewebe überexprimiert	unbekannt			

Sequenz ID	Expression	Funktion	Module	Cytogenetische Lokalisation	Nearest Marker
48	in Blasennormalgewebe überexprimiert	unbekannt		15q11.2-q15.3	SHGC-35142 bis SHGC-7407
50	in Blasennormalgewebe überexprimiert	Homolog zu HU-K5		3q21.3-3q23	SHGC-37132 bis SHGC-30693
51	in Blasennormalgewebe überexprimiert	unbekannt		3p21.31-p21.1	SHGC-30574 bis SHGC-31529
52	in Blasennormalgewebe überexprimiert	Homolog zu O. aries Putative G-protein linked receptor (edg-2)			
53	in Blasennormalgewebe überexprimiert	unbekannt			
54	in Blasennormalgewebe überexprimiert	Humanes Homolog zu murinem NST-1	HSP70		
55	in Blasennormalgewebe überexprimiert	Homolog zu humanem CIP4			
56	in Blasennormalgewebe überexprimiert	Humanes Cbf5p Homolog		Xq25-q27.3	SHGC-31168 bis AFM207xb8
57	in Blasennormalgewebe überexprimiert	unbekannt	ZF_DHHC; NLS_BP		
58	in Blasennormalgewebe überexprimiert	unbekannt		9q12	WI-7387 bis SHGC-32868
59	in Blasennormalgewebe überexprimiert	unbekannt		9q22.2-q22.31	SHGC-14680 bis SHGC-8725
60	in Blasennormalgewebe überexprimiert	unbekannt		1p36.13-p36.31	SHGC-34104 bis SHGC-9861
61	in Blasennormalgewebe überexprimiert	Caenorhabditis elegans cosmid T09A5		Chr.5	SHGC-2758 bis SHGC-4278
62	in Blasennormalgewebe überexprimiert	unbekannt		1q32.3	SHGC-15949 bis SHGC-11476
63	in Blasennormalgewebe überexprimiert	unbekannt	Oxysterol_BP	1p32.3-p33	D1S197-D1S417
65	in Blasennormalgewebe überexprimiert	Homolog zu humanem KOX15	ZINC_FINGER_C2H2_2	16q21-q23.1	D16S2624 bis SHGC-9008
67	in Blasennormalgewebe überexprimiert	unbekannt			
69	in Blasennormalgewebe überexprimiert	Homolog zu Golgi 4-Transmembran spanning Transporter MTP		8q22.3-q24.13	D8S556-D8S266
72	in Blasennormalgewebe überexprimiert	unbekannt		10q23.1	SHGC-14535 bis SHGC-30780

Sequenz ID	Expression	Funktion	Module	Cytogenetische Lokalisation	Nearest Marker
73	in Blasennormalgewebe überexprimiert	unbekannt		1q22	SHGC-32839 bis D1S1576
75	in Blasennormalgewebe überexprimiert	Humanes Homolog zu Rat InRNA for V-1 protein	ank		
77	in Blasennormalgewebe überexprimiert	Caenorhabditis elegans cosmid F13G3	Ribosomal_L13	8q23.3-q24.11	WI-5098-CHLC.GATA8G03.443
78	in Blasennormalgewebe überexprimiert	unbekannt	ig		
79	in Blasennormalgewebe überexprimiert	unbekannt			
80	in Blasennormalgewebe überexprimiert	Humane Pyruvate Dehydrogenase Kinase Isoform 4		7q21.2-q22.1	D7S492-D7S652
82	in Blasennormalgewebe überexprimiert	unbekannt		3p24.3-p23	SHGC-9648 bis SHGC-14769
83	in Blasennormalgewebe überexprimiert	unbekannt		3p12.1-p21.1	D3S3117
85	in Blasennormalgewebe überexprimiert	unbekannt			
86	in Blasennormalgewebe überexprimiert	Mouse epithelial zinc-finger protein EZF (Zie)		9q22.33-q31.1	D9S1690 bis SHGC-14345
88	in Blasennormalgewebe überexprimiert	unbekannt		1p35.1	D1S2569-D1S2676
90	in Blasennormalgewebe überexprimiert	unbekannt			
92	in Blasennormalgewebe überexprimiert	Homolog zu MyD118			
93	in Blasennormalgewebe überexprimiert	Homolog zum p8 Protein aus Ratte	ras	16p11.2-q12.1	D16S3093-D16S409
94	in Blasennormalgewebe überexprimiert	unbekannt		14q11.1-q11.2	D14S990-D14S264
95	in Blasennormalgewebe überexprimiert	unbekannt		16p13.2-p13.3	D16S521
96	in Blasennormalgewebe überexprimiert	Homolog zu murinem B-IND1		15q22.31-q22.33	D15S159-D15S125
97	in Blasennormalgewebe überexprimiert	Canis familiaris Sec61-complex gamma-subunit	SecE		
98	in Blasennormalgewebe überexprimiert	unbekannt		6p21.2-p21.31	D6S276-D6S439

Sequenz ID	Expression	Funktion	Module	Cytogenetische Lokalisation	Nearest Marker
99	in Blasennormalgewebe überexprimiert	Humanes Homolog zu X laevis 146 kDa nuclear protein		2q23.3-q33.3	D2S117-D2S115
100	in Blasennormalgewebe überexprimiert	unbekannt	NLS_BP	9q22.31-q31.1	D9S176-D9S277
101	in Blasennormalgewebe überexprimiert	Humanes Dysferlin	PRO_RICH; C2_DOMAIN_2		
102	in Blasennormalgewebe überexprimiert	unbekannt		10q25.3	D10S216 bis SHGC-13269
103	in Blasennormalgewebe überexprimiert	unbekannt		2p23.1-p23.2	D2S2573 bis SHGC-15275
104	in Blasennormalgewebe überexprimiert	unbekannt	PRO_RICH	8p11.23-p12	D8S2102
105	in Blasennormalgewebe überexprimiert	unbekannt		1p31.1-p34.1	SHGC-32050
106	in Blasennormalgewebe überexprimiert	unbekannt		13q21.33-q22.1	D13S156-D13S162
107	in Blasennormalgewebe überexprimiert	unbekannt			
108	in Blasennormalgewebe überexprimiert	Homolog zu APRIL	TNF		
109	in Blasennormalgewebe überexprimiert	Homolog zu dem humanem p20	crystallin; HSP20	19q13.13	D19S425-D19S224
110	in Blasennormalgewebe überexprimiert	unbekannt		7q31.31	D7S522-D7S2756
111	in Blasennormalgewebe überexprimiert	unbekannt		10q23.31-q24.1	WI-7908 bis SHGC-34547
112	in Blasennormalgewebe überexprimiert	unbekannt		1q31.1-q31.3	SHGC-34113 bis SHGC-34344
113	in Blasennormalgewebe überexprimiert	Homolog zu D. melanogaster furrowed	sushi	9q31.3-q32	D9S160-D9S279
114	in Blasennormalgewebe überexprimiert	Homolog zu murinem BRX Protein	PRO_RICH		
115	in Blasennormalgewebe überexprimiert	unbekannt		Chr. 17 (17p13.3-q25.3)	SHGC-33067 bis SHGC-32338
116	in Blasennormalgewebe überexprimiert	unbekannt		4q28.1-q31.1	D4S1580-D4S427
117	in Blasennormalgewebe überexprimiert	Caenorhabditis elegans cosmid R08D7			

Sequenz ID	Expression	Funktion	Module	Cytogenetische Lokalisation	Nearest Marker
400	Verlängerung zu Seq ID No: 102				
401	Verlängerung zu Seq ID No: 104				
402	Verlängerung zu Seq ID No: 110				
403	Verlängerung zu Seq ID No: 111				

Seq. ID No.	Peptide Sequences (ORF's)	Seq. ID. No.
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2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
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100	100	100

Seq. ID. No.	Peptid-Sequenzen (ORF's)	Seq. ID. No.
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Seq. ID No. Peptide Sequences (ORF's) Seq. ID No.

Seq. ID. No.	Peptid-Sequenzen (ORF's)	Seq. ID. No.
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Seq. ID No.

Peptide Sequences (ORF's)

Seq. ID No.

Seq. ID. No.	Peptid-Sequenzen (ORF's)	Seq. ID. No.
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102		
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104		
105		

E033E0 "D033E0Z333"

Seq. ID No.	Peptide Sequences (ORF's)	Seq. ID. No.
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123		379
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		381
124		382
		383
		384
125		385
		386

Seq. ID No. Peptide Sequences (ORF's) Seq. ID. No.

Seq. ID. No.	Peptid-Sequenzen (ORF's)	Seq. ID. No.
126		388
127		389
		390
391		404
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402		426
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403		428
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The inventive nucleic acid sequences Seq. ID Nos. 1-127 and 391-403 of the determined candidate genes and the determined amino acid sequences Seq. ID Nos. 128-390 and 404-431 are described in the following sequence protocol.